Broadwing
Connecting with Customers at the Speed of Light

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Markets

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- **Markets**
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Broadwing Communications is headquartered in Austin, Texas - a fittingly one-of-a-kind city for a telecommunications company committed to providing a deliberately different customer experience. Broadwing also has sales, service and engineering presence in the cities listed below.

Click here to be contacted by a sales office.

The following are our major branch offices:

ARIZONA
Phoenix

CALIFORNIA
Irvine
San Jose
Walnut Creek

COLORADO
Denver

FLORIDA
Jacksonville
Miami
Orlando
Tampa

GEORGIA
Atlanta

ILLINOIS
Chicago

KANSAS
Kansas City/Mission

LOUISIANA
Baton Rouge

MICHIGAN
Detroit/Novi

MINNESOTA
Minneapolis

MISSOURI
St. Louis

NEW JERSEY
Marlton

NEW YORK
New York City

OHIO
Cincinnati
Columbus

PENNSYLVANIA
Philadelphia/Blue Bell

TEXAS
Austin
Houston
Plano

UTAH
Salt Lake City/South Jordan

MARYLAND
Columbia
Baltimore/Towson

VIRGINIA
Reston

MASSACHUSETTS
Boston

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Broadwing Communications, LLC, provides innovative networking solutions to enterprises, carriers and government entities. Broadwing's one-of-a-kind, nationwide all-optical network enables the delivery of data, voice, video and high-capacity bandwidth services with unparalleled customer focus and speed.

At Broadwing, you'll find a positively different customer experience. We're harnessing the power of the best network infrastructure in the world to make it easy to do business with us every single day, every step of the way. We are faster, more flexible and more fearless than anyone else in the business and we strive to get the job done right for you the first time, every time. We're ahead of 'what's next' and we will challenge the industry with our solution to achieving a Truly Converged Network.

Simply stated? We get it fast. We get it right. At Broadwing, we just get it.

A brief timeline of where we've been and where we're going.

Year	Event
1962	Tower Communications Systems, Inc Founded
1994	Became IXC Communications
1999	Acquired by Cincinnati Bell
2000	DEPLOYED WORLD'S FIRST ALL-OPTICAL NETWORK
2003	Corvis Acquires Broadwing Launched "Access Forward" Completed Significant Network Expansion Announced MultiConnect Line Extensions
2004	Launched CoreConnect Retex Partnership Covad DSL Alliance Entered Government Markets Announced Focal Acquisition Frost & Sullivan Award Broadwing Corporation Announced

Lightpath®
A Cablevision Company

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Our Network Built for Business

Products and Services

View the Lightpath Network Map

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> Apr 18, 2005 Lightpath Lauded for Customer Service

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Integrated Telecommunications Solutions That Meet Today's Business Needs
Since 1988, Lightpath has delivered voice, data, Internet, and video solutions for businesses of every size and complexity in New York, New Jersey, and Connecticut. Utilizing the power of its own fiber optic network, Lightpath delivers a powerful competitive advantage to its customers.

VOICE

DATA

INTERNET

VIDEO

CUSTOMER SERVICE

There's more to a successful business communications network than sophisticated technology. That's why Lightpath's network management, network operations, and service are such vital components of our customer-centric culture.

> Submit a Support Request

Lightpath introduces Metro Ethernet

Lightpath's Metro Ethernet services offers enterprise, retail, and wholesale customers the flexibility of a high capacity network in a tiered premium service.

> Learn more about this productive flexible tool from Lightpath.

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Voice

Products & Services

Effectively managing a corporate telecommunications network is essential for a company to thrive in today's competitive, fast-paced business environment. As a competitive local exchange carrier (CLEC), Lightpath offers a comprehensive array of voice services—local, public switched, plus private and advanced networking features—on both local and long distance levels.

Lightpath's voice telecommunications services allow businesses of all sizes, from single-site to multi-site corporations, to use the power of a network that is all-digital and completely fiber optic. Lightpath's intelligent, self-healing network provides advanced networking solutions on both local and long distance levels, and can save up to 30% on your phone bill alone. And as technology changes, our superior bandwidth helps you integrate new applications as soon as they reach the market. So wherever the future takes your business, you'll always be prepared to better serve your customers, partners, employees, and suppliers.

- **Business Lines**
- **Voice Mail**
- **Toll-Free**
- **Lightpathlink**
- **Digital Centrex**
- **Long Distance**
- **ISDN BRI**
- **ISDN PRI**
- **Teleconferencing**
- **Calling Card**
- **Frequently Asked Questions**

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Data

Products & Services

Businesses are increasingly reliant on networks to support complex applications such as Enterprise Resource Planning, Customer Relationship Management, and Electronic Data Interchange. Your business network must deliver fast, reliable, and flexible data transmission. To accommodate the bandwidth demands of today's business environment, Lightpath offers standard T-1 access through enterprise-scale OC-12 floodgates, delivering end-to-end service your company can count on.

For when a traditional point-to-point meshed network just isn't enough, Lightpath also offers Asynchronous Transfer Mode (ATM), Frame Relay, and Metro Ethernet services to support demanding high-speed data requirements.

- ATM
- Frame Relay
- Metro Ethernet
- Private Line
- VPN
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Internet

Products & Services

As a full-service Internet service provider (ISP), Lightpath affords business customers all the advantages of working with a small, local B-to-B supplier, including outstanding, highly personalized customer service. Additionally, Lightpath offers all the benefits of working with a major provider of telecommunications services, such as route diversity and the unquestionable financial stability of our parent company, Cablevision.

Lightpath offers two types of Internet connections for business customers: Lightpath.net and Business Class Optimum Online.
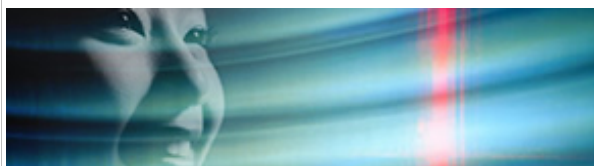
- **Lightpath.net**

- **Business Class Optimum Online**

- **VPN**

- **Managed Firewall**

- **Frequently Asked Questions**

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Video

Products & Services

iO digital cable service offers your organization an added advantage: Digital cable TV service delivered to your place of business. You can stay on top of the latest news developments, monitor financial markets, and keep visitors and employees informed throughout the day. Several iO packages customized for business are available. One of them is sure to be ideal for your organization.

For more information, contact a sales representative by calling (866) 575-8000.

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Small Offices & Home Offices

Products & Services

Managing the telecommunications requirements of a small or home-based office can be challenging. Lightpath offers a variety of voice, data, and Internet solutions designed to fit your needs.

For more information, read about Lightpath's Toll-Free, Voice Mail, and Business Class Optimum Online services.

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Small & Medium-Sized Businesses

Products & Services

To meet the demands of your growing business, you require reliable phone service, a secure Internet connection, and fast data transmission. Lightpath provides all of this and more.

For more information, read about Lightpath's ISDN PRI, Toll-Free, Digital Centrex, Frame Relay, Private Line, Lightpath.net, Managed Firewall, and VPN services.

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Large & Enterprise Businesses

Products & Services

Lightpath delivers reliability, scalability and performance with its customized solutions for large and enterprise businesses, which include ISDN PRI, Toll-Free, Digital Centrex, Frame Relay, Private Line, Lightpath.net, ATM, Managed Firewall, VPN, and Metro Ethernet services.

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Carriers & ISPs

Products & Services

Today, service providers are being asked to supply more than just connectivity. Businesses rely on their carriers for content hosting, data mirroring, and data backup. Regardless of whether service providers extend their offerings to include these types of services or are looking to adhere to core competencies, network performance can only be guaranteed by the delivery of foolproof, high-capacity connectivity.
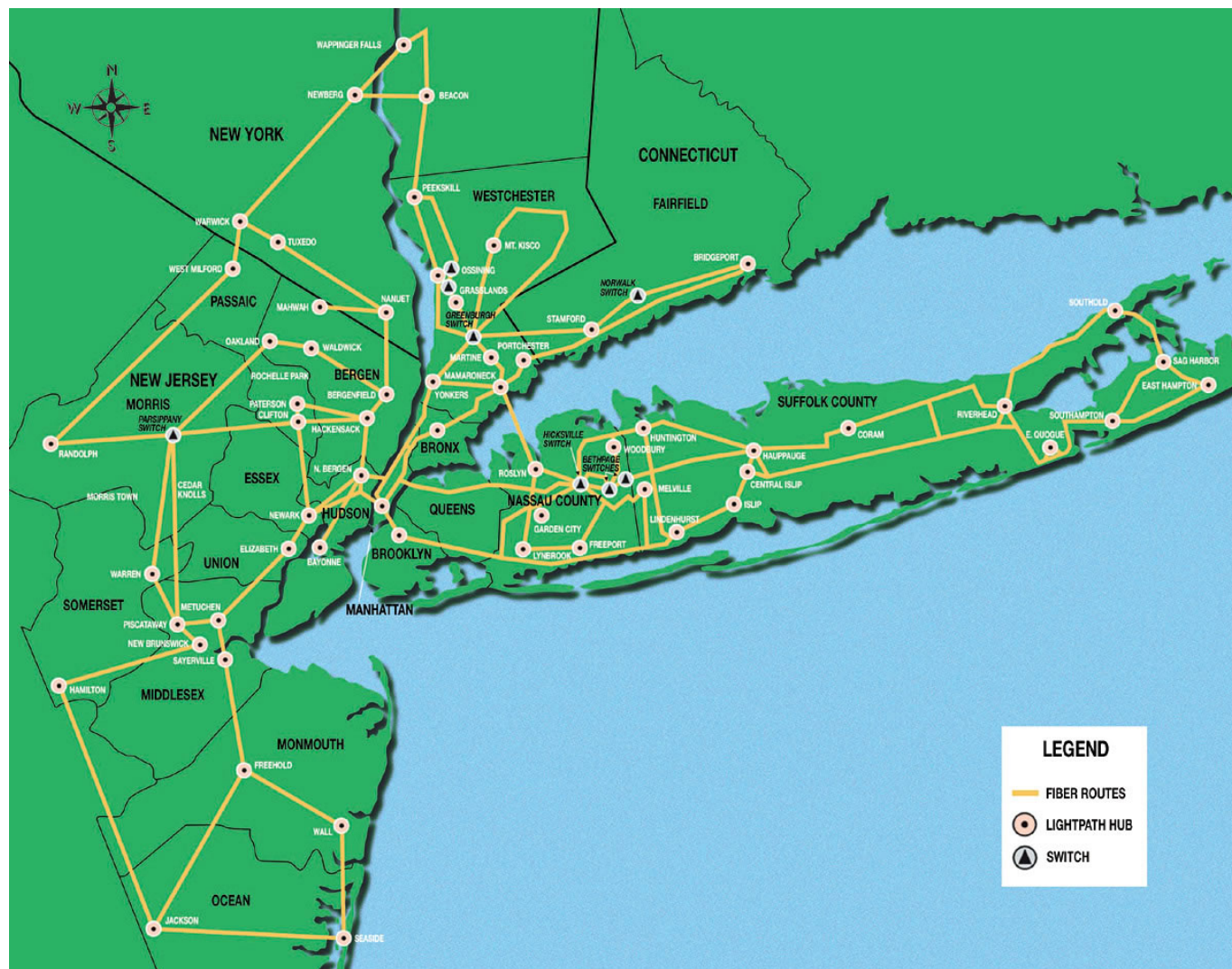
Lightpath's Service Provider Solutions focus on the specialized needs of the carrier industry, providing service to wireless providers, local exchange carriers, Internet service providers (ISPs), as well as both national and international carriers. Lightpath uses a growing, fiber optic network that includes Lucent switches, and more than 50 hubs in the area's major carrier hotels; because of this, Lightpath can provide carriers throughout New York, New Jersey, and Connecticut with transport services ranging from Ethernet (10M, 100M, GigE) and DS-1 to OC-192 (Wave Division).

With Lightpath, service providers are able to:

- Leverage the manpower, facilities, and resources of a company with more than 16 years of experience in engineering and operating fiber optic networks.
- Accelerate entry into new businesses and markets by utilizing Lightpath's existing all-fiber infrastructure.
- Avoid business risks associated with older network technologies.
- Access a team of network management engineers that will pinpoint and resolve any network problems 24 hours a day, 7 days a week, 365 days a year.
- Confidently implement and uphold customer service agreements.
- Ensure against disaster and provide redundancy using a self-healing, synchronous optical network (SONET) network.

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Solutions — World Class Service. Cutting Edge Technology. Superior Value.

Metro Dark Fiber

Dial Tone Service Area

Cavalier Service Areas

Maryland: Baltimore, DC Beltway, Eastern Shore	**New Jersey:** Atlantic City, Philadelphia NJ suburbs
Pennsylvania: Greater Philadelphia Metro area	**Virginia:** Richmond, Hampton Roads, Fredericksburg, Northern Virginia
Delaware: Majority of Sussex, Kent and New Castle Counties	**Washington DC:** Business & Government, Wholesale Customers only

For more information about our products or the markets we serve, use the links located at left.

"If your business could save thousand of dollars every year by switching to Cavalier Business Communications, would you?"

Who is Cavalier ?
Cavalier Telephone is a Competitive Local Exchange Carrier (CLEC) headquartered in Richmond Virginia and operating in seven markets in five states and the District of Columbia as a leading competitive service provider to both business and residential customers. Cavalier has invested over $250 million to build a state-of-the-art telecommunications network utilizing best-in-class technology. By making the investment in our own network, Cavalier is able to avoid the huge overhead of the incumbent telephone company. This enables us to provide the highest quality customer service while passing significant savings on to you.

Key Business Segment Products
Local Calling Services
Long Distance
Private Lines
Internet Access T1 to OC-x
Multi-Use T1 (voice & data)
DSL to 15 mbps
128k ISDN
Web Hosting
56k internet
Domain Name Management
Virtual Private Networks
Phonom VoIP
Phonom IP Centrex
ISDN PRI and BRI
Frame Relay
10/100 Gig-Ethernet
DS3 - OC-x

Voice Solutions from Cavalier Business Communications

Businesses of every size and in every industry benefit from Cavalier Business Communications' comprehensive suite of voice product solutions. The competitive nature of business demands that companies stay ahead of the pack and keep a sharp eye focused on the bottom line. Cavalier Business Communications customers get rock-solid reliability with state-of-the-art features at savings only offered by a complete telecommunications provider.

PRODUCT	DESCRIPTION	APPLICATION/PURPOSE
Essentials – Basic	Local telephone service line with three-way conference, toll block and Speed Dial features included.	Businesses that require the most economical package. Usage-based billing for local calling with long-distance packages available.
Essentials_ Unlimited	Flat rate telephone service with unlimited local calling. Three-Way Conference, Speed Dial and Toll Block features included.	Businesses that require an affordable local calling solution. Unlimited local calls with long-distance packages available.
Essentials– Complete	Unlimited local and long distance calling for a set price per month. Certain restrictions apply.	Businesses that need less than 10 lines requiring both local and long-distance for an affordable price.
Complete T	Integrates voice and data services on a single T-1 line.	Businesses that require multiple voice lines and dedicated data services provisioned over a single access circuit.
ISDN PRI	Integrated Services Digital Network Primary Rate Interface – digital connection between the Cavalier network and the enterprise premise.	Digital trunking for PBX that can provide Caller ID, Internet access, or host computer access.
Digital T-1	1.54mbps digital connection providing 24 channels for voice or data applications.	Mid to large-sized businesses with premises based switching equipment used for high volume inbound/outbound local and long-distance calling.
Long Distance	1+ outbound and toll free inbound services for in-state, inter-state and international calling. Calling Card service available.	Businesses that require global voice communications, toll-free inbound calling, and calling cards for a high level of calling control and reporting.
Audio & Web Conferencing	Toll-free reservationless conferencing service enables multiple users from different locations to dial into one telephone number and participate in the same telephone call, creating a virtual meeting. Web Conference option allows presentations or desktop applications to be shared with audio participants. Operator Assisted Event Calls available.	Businesses with a distributed workforce needing to regularly communicate and share information verbally or through the use of presentation materials.
Voice Mail	Network-based centralized voicemessaging service that captures messages 24 hours a day, seven days a week when phone lines are busy or not answered.	Businesses that require an affordable, provider managed voice messaging solution.

FIBERTREX	Hosted telephone service that provides reliable, hasslefree features to manage your communications without expensive equipment and capital.	Businesses that require the advanced features of a PBX without managing premises based equipment.

Cavalier Business Communications
Technology At Your Speed Of Business

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SOLUTIONS

World Class Service.
Cutting Edge Technology.
Superior Value.

Data Solutions from Cavalier Business Communications

Rapid access to data and the exchange of information has never been more critical to business success. Data systems used by cutting-edge businesses in years past are now common place in virtually all companies today. Cavalier Business Communications understands this and provides a long list of smart, flexible, scalable data solutions designed with your business in mind. Get state-of-the-art data solutions for your business at very affordable rates.

PRODUCT	DESCRIPTION	APPLICATION/PURPOSE
Dedicated Internet Access	High-speed Internet access. Comprised of a dedicated local access, network transport, Internet port, and value added IP services.	Internet access for mission critical business use.
CavDirect Connect Private Line	High-speed, secure, site-to-site connectivity. Comprised of dedicated local access and dedicated backbone transport.	Private, secure transmission of critical data or voice traffic.
Frame Relay	Widely accepted, secure wide area networking technology.	Secure site-to-site connectivity with "best effort" performance for delay tolerant traffic.
Collocation	Facilities designed to house customer-owned equipment providing a secure, controlled environment with dedicated connectivity.	Business content distribution and web hosting, data protection, and disaster recovery.
CavVelocity Flex DSL	High-speed Internet connectivity utilizing standard telephone lines.	Internet access for business uses where downloading content is the primary need. Download up to 10Mbps
CavVelocity Symmetric DSL	High-speed symmetrical Internet connectivity using standard phone lines.	Internet access that provides high-speed, bi-directional throughput. 1.5 or 2Mbps symmetric bandwidth
ISDN Internet Access	Robust dial access to the Internet.	Business Internet connectivity when DSL is not available, 56K dial is not enough, and T1 is not justified. Back-up connectivity for use in the event of a primary connection outage.
56k Internet Dial-up	56K Internet access utilizing a modem and standard telephone lines.	Business Internet connectivity when DSL is not available and when ISDN or T1 is not justified. Back-up connectivity for use in the event of a primary connection outage.
Dark Fiber	Unlit optical fiber available on select inter-city routes and in some metro markets.	Enables customers to build or augment a privately managed broadband network.
CavShare Server Web Hosting	Space allocated to a customer on a publicly accessible web server.	Enables a customer to build a basic web site to advertise and distribute content concerning their business.
Domain Name Hosting	Web site name (domain) management that enables web site reach-ability on the Internet and assists in domain related email exchanges.	Required for domain driven applications like email and web hosting.

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E-mail	Mail communications delivered in a digital format over a LAN, WAN, or the Internet.	Businesses that require electronic messaging capabilities and need to transfer files between users.

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Conferencing Solutions from Cavalier Business Communications

On-Demand Audio and Web Conferencing offers easy, secure, feature-rich, dependable conferencing when and where you need to meet, around the world, with state-of-the-art network reliability and reporting for outstanding security. For more information about Cavalier Teleconference Solutions call toll free **(877) 810-4392.**

PRODUCT	DESCRIPTION	PERFECT FOR
Cavalier Conference	Self service personal conference bridge. Up to 96 people on a call (with Web Meeting included)	Weekly/daily staff meetings. Meetings involving people who are traveling or geographically dispersed.
Web Meeting	Manage meetings on-line, change account options, share presentations with participants, record slides synchronized with the audio conference and store the files online.	Project status updates, training, consultation, professional development. Cavalier Web Meeting Users Guide Click Here Web Meeting Log On Click Here
Automated Event Conference	Reservations-based audio conference service. Users will be issued at least two toll/toll free dial-in numbers and a separate speaker dial-in number. At least 60% of those attending will dial in to the bridge and drop directly in conference in either listen only or an interactive mode. These participants will not be able to ask questions. Remaining participants will dial-in to a different number and be answered by a live operator and will be able to ask questions. Operator will monitor 100% of the call.	Call with Question and Answer sessions or calls with distinct audience groups with different needs.
Event Express Conference	Facilities designed to house customer-owned equipment providing a secure, controlled environment with dedicated connectivity.	Business content distribution and web hosting, data protection, and disaster recovery.
Event Call Conference	Supports virtually unlimited audience sizes with full-service operator coordination, monitoring and support. Full availability of Enhanced Services suite.	High profile conferences such as Earnings Announcements or Analyst Calls.
Enhanced Services	Conference Playback, taping, transcription, translation, participant list, and participant notification.	Maximizing the impact of your communications message.

Frequently Asked Questions from Cavalier Business Communications, Your Business Telephone, Data and Communication Partner

Verizon Response - Exhibit 6.D.3

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Frequently Asked Questions of Cavalier Business Communications

What sets Cavalier Business Communications apart from other telephone and data service providers?

Cavalier Telephone has invested over $250 million to build a state-of-the-art telecommunications network utilizing best-in-class technology. By investing in their own network, Cavalier is able to avoid the huge overhead of the incumbent telephone company and provide cutting edge telecommunications solutions to your business. Built into the design of the network are features such as self-healing ring architecture in the fiber network and digital 5E switching equipment with redundant power back-up systems. From the moment you sign up for Cavalier service with an experienced outside sales representative, your account is managed by a team of project coordinators who care for your company's unique needs.

What size of business does Cavalier serve?

Large and Small. The product solutions that Cavalier offers benefit businesses of any size. Cavalier provides all the communication tools necessary to flourish into today's competitive business world including Multi-service T1, ISDN PRI, Voice Mail, Wi-Fi, Audio and Web Conferencing, and much more. For your Internet needs, Cavalier offers high-speed solutions at a fraction of the cost of traditional solutions and allows Internet access and email for anywhere from 2-2,000 employees. Also, we offer domain hosting and registration (www.your company.com), and email and content management solutions to maximize your company's productivity.

Can my business keep its current phone numbers?

Yes. You have the option of keeping your existing phone numbers or having new ones assigned to you. Many businesses find that keeping a set of core numbers and augmenting them with additional numbers is very useful.

How easy is it to switch to Cavalier?

The decision is simple. The installation is easy as well but takes about 2–3 weeks depending upon the complexity of services you initiate. With preparation and planning, most businesses seamlessly transition to the Cavalier network.

All this sounds too good to be true… can Cavalier really offer more for less?

Yes! Because Cavalier has built its own fiber network, we are able to control costs without the excessive overhead of the incumbent telephone company. Thus, we are able to pass those savings on to you, combined with our dedication to provide personalized customer service and support.

What new services can I look forward to?

As technology progresses, Cavalier is committed to offering its customers the newest and most cutting edge technology available in both voice and data services. Cavalier will work as your partner and grow with your company.

Does Cavalier Business Communications support and offer Voice Over Internet Protocol (VoIP) services?

Cavalier Business Communications has partnered with Phonom, LLC, to offer a full suite of VoIP products to business customers throughout the Mid-Atlantic. Phonom VoIP allows for the delivery of voice traffic over a broadband Internet connection. Benefits to business customers include improved call clarity, significant tax savings (VoIP is a non-regulated service that is not taxed on local, state or federal levels), and extremely competitive pricing. Visit www.phonom.com/business, or ask your account executive for additional information.

CLEC Certified in VA, MD, DC, DE, PA, NJ

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62 Verizon COs & 8 OC-48 fiber rings
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400 route-miles of dark fiber
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19 Shea Way, Newark
28 Verizon COs & 3 OC-48 fiber rings
800 route-miles of dark fiber
Baltimore
300 West Lexington Ave.
15 Verizon COs

DC Metro
1275 K. St. &
360 Herndon Pkwy, Herndon
52 Verizon COs & 5 OC-48 fiber rings
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2134 W. Laburnum Ave. &
701 E. Cary St.
19 Verizon COs & 8 OC-48 fiber rings
200 route-miles of dark fiber
Norfolk
1319 Ingleside Rd.
22 Verizon COs & OC-48 fiber rings
150 route-miles of dark fiber

Contact Information:
Joe Delaney Director of Sales
(267) 803-4092 or (800) 950-7858
jdelaney@cavtel.com

CAVALIER WHOLESALE SERVICES
Private Line
Metro transport: DS1 to OC-48. Layer your value-add services on top of the Cavalier Network. Let Cavalier aggregate your metro traffic and deliver it to your POP over a hub facility. Take advantage of our dense footprint in 215 Verizon COs – which gives us reduced (UNE) rates on loops.

Private OC-48 and Gig-E Rings
Cavalier has extensive experience in designing and building private networks for carriers and enterprise customers in our footprint.

Metro Dark Fiber Rings
Give Cavalier your targeted building list, and we will design a diverse fiber ring from our inventory with laterals into those buildings.

Internet
Take advantage of our reliable & robust Data Network. (DS-1 to OC-3 & Ethernet)

Data Center Co-Location
Collo your equipment with us in a high-security, temperature and humidity controlled locations and gain access to our entire footprint, partnering vendors and our metro advantage.

Switch Services
Take advantage of Cavalier's Class 5 switches for ISDN PRIs, Origination and Termination (local and toll).

PHONOM VoIP Voice over Broadband Internet Telephone Business services from Cavalier Telephone.

Verizon Response - Exhibit 6.D.3

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PHONOM™ *Voice over Broadband Business Services*

Cavalier's PHONOM VoIP Voice over Broadband brings broadband and phone service together, giving your business significant savings, advanced features, and crystal clear digital quality through a superior Voice over Broadband platform.

Cavalier's PHONOM utilizes Voice over Broadband technology that allows analog voice signals to be digitized and delivered to your business over a digital broadband connection. Because Cavalier's PHONOM voice service is digital and delivered over a broadband connection, it is not taxed; automatically saving your business as much as 25% in taxes alone.

Cavalier's PHONOM Voice over Broadband offers local, long distance, and data service options to fit your unique needs, at as much as 20% off the incumbent local phone company, even before you subtract another 25% savings in taxes. Some businesses will save over 40% when you combine the tax savings and Cavalier's competitive price!

Cavalier's advanced technology combines the best of both worlds; the convergence of tried and true telephone switching technology and high-speed broadband digital connections. This combination delivers the standard suite of call management features that businesses are accustomed to, plus new internet-based features such as Web Voice Mail and WebCall Manager.

For more information or to place an order, please call 800-503-8647 or email us at businesssales@phonom.com

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Phonom enabled IP Centrex Services
IP Centrex is packet-based. Because it is monitored and maintained in Phonom's central office, IP Centrex enables enterprises to reduce costs associated with buying and maintaining telecommunications equipment, protects them against equipment obsolescence, and reduces the time and expense of moving or adding phone services for a changing workforce. It is a secure and reliable enterprise VoIP solution.

Data networks that are critical to the success of enterprises are growing in size, complexity— and cost. The same can be said of the voice networks used to communicate internally and externally. Maintaining the effectiveness, security and reliability of these networks are major priorities, especially when supporting multiple locations and remote workers.

Consolidating voice and data communications on a single, packetbased platform offers enterprises the opportunity to add new data services while lowering the cost of voice services. But there are also many challenges. Disparate platforms and desktop systems offer few options for unification—short of total replacement.

IP Centrex is a fully managed, costsaving service that combines the proven functionality of Centrex with the advanced benefits of Voice over Internet Protocol (VoIP). IP Centrex enables enterprises to unify communications for multiple locations and deliver seamless support for remote workers, who benefit from the appearance of actually being in the office with corporate directory access and four- or five-digit dialing capabilities. IP Centrex provides an enterprise-wide suite of familiar Centrex services, as well as new applications, such as automatic moves, softphones and remote Centrex access. And network-based disaster recovery protection available from Phonom helps assure business continuity.

Lower network service costs IP Centrex Services allow enterprises to leverage their investment in PBXs, key systems and Centrex. Voice and data networks are consolidated on Local Area Networks (LANs) and Wide Area Networks (WANs), saving on wiring and maintenance costs. Capital expenditures for premises equipment are virtually eliminated, along with the risk of premature technology obsolescence. Phonom manages the edge technology and transport layers, resulting in less overhead for enterprises. The addition of portal-based enhanced services can help enterprises save on redundant calendaring and instant messaging services costs, Unified Messaging, conferencing, and client software licenses. This reduces needs for help desk support and simplifies vendor management.

Add robust remote worker capabilities IP Centrex Services enable users to access the full in-office communications toolset from virtually anywhere—including international locations. Enterprises can support a mobile, distributed workforce, including teleworkers, road warriors and remote offices. All will be able to use four- or five-digit dialing with the most wanted services, such as transfer, conferencing, caller ID and call forwarding. Enterprises can easily create and manage virtual contact centers on demand, easily distributing traffic among multiple, geographically disparate facilities, including at-home workers.

Upgrade existing Centrex services without disruption Because IP Centrex Services inter-work with existing Centrex systems, users can retain the same dialing plans and telephone numbers they currently have on Centrex. Phones can be migrated to IP Centrex one at a time, allowing enterprises to scale up VoIP implementation at the pace that makes the most sense.

Improve ability to focus on business issues By implementing managed IP Centrex Services, enterprises can free resources to focus on strategic projects and systems rather than telecommunications. Phonom will configure the network in the background according to an enterprise's changing needs, while continuously monitoring it for performance and reliability.

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IP Centrex Features and Benefits

Aside from the primary IP telephony benefit of increased bandwidth utilization of a network, IP Centrex offers the features and benefits of normal Centrex service. Details and features vary depending upon the actual equipment used but generally include…..

Account Code Tracking - track and manage telecommunication expenses.

Anonymous Call Rejection - automatically reject incoming calls from callers not delivering their name or telephone number with the call.

Automatic Callback - when encountering a busy signal, a caller can dial an activation code and be automatically called back when the called station becomes idle.

Automatic Line/Direct Connect ("Hotline") - automatically dials a pre-assigned Centrex station's extension number or external telephone number whenever a user goes off-hook or lifts the handset.

Call Block - automatically reject incoming calls placed from specific telephone numbers.

Call Forwarding (Busy, Don't Answer, Multiple Simultaneous, Variable, Selective) - automatically routes incoming calls to a given extension to another preselected number under a variety of circumstances. Call Forwarding Busy forwards calls when the called extension is busy. Call Forwarding Don't Answer forwards calls when there is no answer after a specified number of rings. Call Forwarding Multiple Simultaneous indicates the number of forwarded calls (originally dialed to the same Centrex extension) that can occur simultaneously. Call Forwarding Variable allows users to forward all calls to their extensions to another number (that they select). There are various call forwarding options that allow differential call forwarding to be applied depending on whether the caller and/or the forwarded number are members of the Centrex group or external lines. In addition, Selective Call Forwarding allows the user to pre-select which calls will forward to a different telephone number, based on the based on the calling party's telephone number.

Call Hold - calls can be put on hold by dialing a feature activation code (phone does not need a Hold button). After a call is put on hold, the user may perform some task related to the call (e.g., look up customer information), originate another call, answer another call by using a Call Pickup feature, answer an incoming call with the Call Waiting feature, or return to a previously held call.

Call Park - allows user to place call on hold, move to a different location, and then resume the call from any other station in the Call Park group.

Call Pickup - The lines (or a portion of the lines) in a Centrex group can be made members of a pickup group. A call ringing on any station in the pickup group can be answered from any other station in the pickup group.

Call Restrictions/Station Restrictions - prevents certain types of calls from being made or received by particular stations. For example, phones in public areas can be blocked from originating calls to external numbers to prevent unauthorized users from incurring toll charges. Phones in certain areas may be blocked from receiving external calls to limit employees abilities to receive personal calls. A wide variety of restrictions is available which can address incoming calls, outgoing calls, toll restrictions, code restrictions, and differential treatment for internal and external calls.

Call Return - allows user to originate a call to the last party or number that called the user, regardless of whether the user answered the original call or knows the caller's identity.

Call Selector - uses a special ringing pattern to alert called user of incoming calls from pre-selected telephone numbers.

Call Transfer - transfers an existing call to another party (inside or outside the Centrex group)

Caller ID - allows the user to identify the name and telephone number of a calling party before answering an incoming call. Another version of this feature--Caller ID on Call Waiting--allows for the calling name and number to be delivered when the called party is on another call.

Calling Number Delivery Blocking - prevents a caller's telephone number and/or name from being divulged to the called party (who might otherwise receive that information if they subscribe to Caller ID).

Consultation Hold - calls can be put on hold by depressing the switch-hook or pressing the flash button. After completing a second call, the user is automatically reconnected to the originally held call.

Code Restriction - prevents a user from dialing one or more three-digit codes. Code

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Restriction can be used to reduce per call charges for certain services or restrict access to long distance carriers (other than the company's pre-selected long distance carrier).

Dial Call Waiting - allows the user to automatically send a Call Waiting tone to another Centrex user when the called party's line is engaged. If the calling user invokes Dial Call Waiting, the called user's line does not need Call Waiting Terminating in order for that user to receive the Call Waiting tone. Upon hearing the Call Waiting tone, the called party can put the current conversation on hold to answer the incoming call. Dial Call Waiting is activated on a per call basis, so the caller can decide to use it only when the call is important enough to interrupt an ongoing conversation.

Directed Call Park - allows user to place call on hold, specify the extension number from which the call will be resume, and subsequently move to that location and resume the call.

Directed Call Pickup - allows a call ringing at a Centrex station to be answered at a different station. At the station where the call is to be answered, the user dials a feature code and extension number of the ringing telephone. If the user does not finish dialing prior to someone else answering the call, then the user hears a busy signal (if the Barge-In feature is not assigned) or is bridged onto to the call to form a three-way conference call (if the Barge-In feature is assigned).

Distinctive Ringing - uses a special ringing pattern to indicate to the called user whether an incoming call is from outside or from within the Centrex group. If the user also has Call Waiting Terminating, then the Call Waiting tones will also be distinctive based on the origin of the call.

Intercom Dialing - allows user to call Centrex extensions by dialing a standard 4-digit code instead of the entire 7-digit telephone number.

Hunt Groups - allows calls to be redirected to other predetermined lines when the called line is busy. Hunting allows a number of lines to be grouped into a "pool" so that an incoming call is directed to whichever of the lines is available. There are a number of different hunting options which determine how an available line is selected.

Last Number Redial - allows user redial the last number called by dialing an access code or by pressing a single button.

Message Waiting Audible - provides the user with an audible notification--a "stutter" dial tone--when messages have been left in the company's voice mail system. Centrex service provides a Simplified Message Desk Interface (SMDI) interface so that the company's (or a third party's) messaging system can activate stutter dial tone on specific lines (and deactivate it after the messages have been retrieved).

Message Waiting Lamp - provides the user with a visual indication when messages have been left in the company's voice mail system. The indication may be a flashing lamp on a compatible telephone or on an adjacent visual message waiting device.

Music-On-Hold - provides a musical interlude for callers who are waiting on hold.

Repeat Dialing - automatically dials the last telephone number the user called, and, if that number is busy, continues to monitor the busy line and establishes the call when the line becomes idle.

Speed Dialing - allows the user to call frequently called telephone numbers by dialing an abbreviated speed calling code instead of the entire number.

Three-Way Conferencing - allows user to add a third party to an existing conversation forming a three-way conference call.

Toll Restriction - blocks a station from placing calls to telephone numbers that would incur toll charges.

700/900 Blocking - blocks a station from placing calls to 700 and 900 numbers.

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PHONOM™ enabled Web Call Manager

Web Call Manager- Part of the next-generation enhanced communication application to enhance user productivity. Adding WebCall Manager software to user desktops creates an enterprise-wide softphone call management environment. This enables enterprises to integrate directories, e-mail and telephone services, and other information resources for improved user productivity. WebCall Manager provides access to a suite of fully hosted computer telephony integration (CTI) applications enabling new options for enterprise-wide communications unity and effectiveness. With WebCall Manager, enterprises can offer a rich telephony feature set to every desktop regardless of the type of phone on the user's desk. Through its unified graphical user interface (GUI), WebCall Manager adds interaction and synergy between existing communication systems, bringing more value and greater productivity to users. Now users' wireless phones can access desktop phone logs, corporate calendars and corporate directories, and computers can access voicemail and interact with phones.

WebCall Manager enables features such as:
• **Click to dial** , add and transfer — the ability to click on phone numbers in the Web portal GUI to initiate calls.
• **Call logs** — call history information, such as calling/called party, date, time, duration, etc., presented in the Web portal.
• **Progressive conferencing** — the ability to build a multi-party conference bridge through the portal GUI.
• **Find me/follow me** — the ability to create profiles to customize inbound call treatments. • Web-based control of calling features — the ability to program buttons within the portal to invoke calling features with a mouse click.
• **AnyDial** — the ability to dial any web phone number with a mouse click.
• **Directory search** — the ability to access the corporate Lightweight Directory Access Protocol (LDAP) directory for click to dial and click to e-mail.
• **Unified messaging** — a unified view within the portal to all messages, call logs, e-mail and voicemail.
• **Speed dial** — the ability to quickly build "clickable" lists of frequently dialed numbers.
• **Personal address book** — a repository of a user's own personal WebCall Manager contacts.

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Select SAVINGS means your business communications plan can
be as unique as you are -- because you design it. It's just one of
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Just review your usage to see which services -- Local, Long
distance or data -- you use the most. Then we'll help you
structure your savings accordingly. It's that simple.

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• Conference Calling	• E-mail	

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Our Company - Company Overview

Choice One Communications is an Integrated Communications Provider (ICP) offering a full array of local, long distance, high-speed data (including DSL), web hosting, design and development services to small and medium sized companies in the Northeast and Midwest United States. Our company currently provides service to clients in 29 second and third-tier markets in twelve states where there are fewer competitors than in larger metropolitan areas. We have chosen to target small and medium sized-business because they are typically underserved by the incumbent local exchange provider (Baby Bell or Local Independent).

Choice One's objective is to provide one-stop shopping for communications services and to offer fully integrated broadband data and voice services through a single point of contact for sales and client care. We believe in building a strong local presence in each market we serve, hiring experienced General Managers and sales personnel, and developing strong relationships with clients by selling services face-to-face and acting as the client's telecommunications consultant. A wholesale channel strategy targets ISPs and other resellers for a wide range of Choice One services, including DSL.

We needed people who could address our current communications challenges, and who could lead us into the future.

Russ Brandon
VP Business Development
Marketing, Buffalo Bills

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Locations

Choice One currently serves 29 markets in twelve states.

Click on a location for office details

Note: Poughkeepsie, Kingston, and the Mid Hudson Valley area are serviced by Choice One's Albany Office

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Choice One Wholesale

KEEP YOUR CUSTOMERS CONNECTED - AND YOURSELF COMPETITIVE - WITH WHOLESALE PRODUCTS AND SERVICES FROM CHOICE ONE.

Choice One's diverse product portfolio and unique network footprint, combined with an emphasis on Tier 2 and 3 markets, provides the reliability and flexibility needed to stay competitive. Add Choice One's dedicated support team, and you've got One powerful combination.

For more information, contact Choice One Wholesale today.

Choice One's Wholesale product portfolio includes:

UNE-P Alternative Access	Integrated T1
PRI	DSL
Local Loop	Collocation
Dedicated Internet	Metro Private Line
Private Line	Dedicated Long Distance

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Download our Wholesale Products and Services Brochure

Choice One Wholesale

The Choice One Network

Choice One Communications is a fully Integrated Communications Provider (ICP) with over 1400 colleagues and operating in 12 states and 37 markets throughout the Northeast and Midwestern United States.

Click here to view our map of our Market Coverage.

Choice One PoPs

Akron, OH	Albany, NY*	Allentown, PA
Appleton, WI	Bloomington, IN	Binghamton, NY
Buffalo, NY*	Colombus, OH*	Dayton, OH
Elkhart, IN*	Erie, PA	Evansville, IN*
Fort Wayne, IN*	Green Bay, WI*	Grand Rapids, MI*
Harrisburg, PA	Hartford, CT*	Indianapolis IN*
Kalamazoo, MI*	Kingston, NY	Madison, WI*
Manchester, NH*	Milwaukee, WI*	New Haven, CT*
Oshkosh, WI	Pittsburgh, PA*	Providence, RI*
Portsmouth, NH	Portland, ME*	Rochester, NY*
Scranton, PA	South Bend, IN*	Springfield, MA*
Syracuse, NY*	Youngstown, OH	Rockford, IL
Worcester, MA*		

*Intra-city Fiber Markets

Choice One's distinction is our depth into tier 2 and 3 markets that most providers are unable to reach. Choice One has facilities collocated in 505 ILEC Central Offices, extending the network reach and providing the ability to our Wholesale customers to cost-effectively reach their end-users. Choice One understands that last-mile connectivity can be the key component in being able to provide a total solution, premise to premise. Choice One's unique network design enables us to leverage Central Office facilities to bring a selection of economical local access alternatives to our clients, whether Special Access or UNE local loops, ATM DSL, Metro Private Line, or customer Collocation.

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Choice One Wholesale
- UNE-P Alternative Access
- Integrated T1
- PRI
- DSL
- Local Loop
- Collocation
- Dedicated Internet
- Metro Private Line
- Private Line
- Dedicated Long Distance
- Our Network

Central Office Facilities:

As part of Choice One's commitment to extending our network throughout Tier 2 and 3 markets, we have facilities collocated in 505 ILEC Central Offices. Network elements housed at these COs include Paradyne GranDSLAM 8810 and 8820 multi-service broadband access platforms for voice, video and data. Also utilized are Lucent AnyMedia AS 800s. The AS 800 is also a multi-service access node that supports the entire spectrum of applications, from the most basic voice POTS services to the most advanced broadband data applications. The AS 800 is integrated and can simultaneously support both TDM and ATM within a single platform. By utilizing these facilities, Choice One can support all of today's demanding applications for data, voice and video over ATM, TDM, and IP and allows Choice One to serve 100% of our client's needs.

Intra-city Fiber Networks:

Choice One is also proud to own and maintain intra-city fiber networks connecting multiple ILEC Central Office Collocation cages with our Regional Switching Center (RSC) in 24 markets. These intra-city fiber networks allow Choice One to offer Metro Private Line services to our clients and provide a fast, economical, and scalable alternative to the regional LEC.

Transmission:

Metro:
Choice One operates and maintains an ATM optical backbone. Choice One has partnered with Lucent for our ATM infrastructure which includes 32 Lucent CBX500 and GX 500 ATM switches power the core, and there are over 300 Lucent PacketStar PSAX 2300 Multiservice Media Gateways installed for service distribution.

Choice One's Lucent CBX500 ATM switches provide data switching capabilities including native ATM services and Frame Relay. The CBX500 offers a wide range of software and hardware fault tolerances that allow continued service through almost any failure, and delivers high-density ATM access and cost-effective, reliable ATM trunking.

Inter-City:
Lucent PacketStar PSAX 2300 Multiservice Media Gateways push broadband services beyond the core to the edge of the network and the central office. A high-capacity, high port density system, it delivers 2.3 gbps for ATM switching with up to 15 I/O module slots per chassis. The PSAX 2300 offers superb redundancy and protection features with an emphasis on the enhanced security and resilience required for the demanding service provider environment.

Switching:

Local

Choice One provides POTS, PRI, VoIP and other Local Services through our 5ESS local switches. Choice One owns and maintains 25 Lucent 5ESS switches across our footprint. The Lucent 5ESS is the premier carrier-class, central office switch in the industry today. The 5ESS offers the full range of products and features that Wholesale customers need and demonstrates Lucent's commitment to keeping up to date with the ever-evolving Telecom Industry.

Lucent continues to set the Industry standards for world-class reliability. The 5ESS Switch delivers a single millisecond of downtime per line, per year, based upon the average number of lines per switch, which is roughly 20 times better service quality results than three other major network suppliers.

Long Distance

Choice One's Long Distance services include Dedicated 1+, 800, International, Canadian and Director Assistance which are enabled by our 5 Lucent Toll Tandems and Least Cost Routing functionality which provides our clients with the most cost-effective pricing with the best quality. Through Choice One's IMT-Interconnected Toll Tandems in Pittsburgh PA, Rochester NY, Springfield MA, South Bend IN, and Milwaukee WI, we can make available to our clients all the sub-tending LATAs, and can interconnect at a common point, and not force our clients to meet us in every LATA.

Choice One maintains and operates a state-of-the-art SS7 network to provide fast call connections, least-costs routing, and to enable advanced service features on our Advanced Intelligent Network (AIN) platform.

Choice One's fully redundant AIN platform includes owning our own Lucent Service Control Points (SCPs) and Tekelec Signaling Transfer Points (STPs), which allow us to provide features such as Verified Account Codes (VACs), and perform our own 800 number conversions to POTS. Choice One can support all client needs consistent with those supported by large incumbent local phone companies, but at a more cost-effective price and with increased flexibility and reliability.

Network Surveillance Center (NSC)

Choice One operates a world-class trouble management and maintenance Network Surveillance Center in Grand Rapids, MI. The NSC is manned and operational 24x7, 365 days a year, and is staffed by a select team of seasoned industry professionals. The NSC provides support for all Choice One services with real time network status, network inventory management, network activity control, and network performance analysis.

Choice One Wholesale Network Map
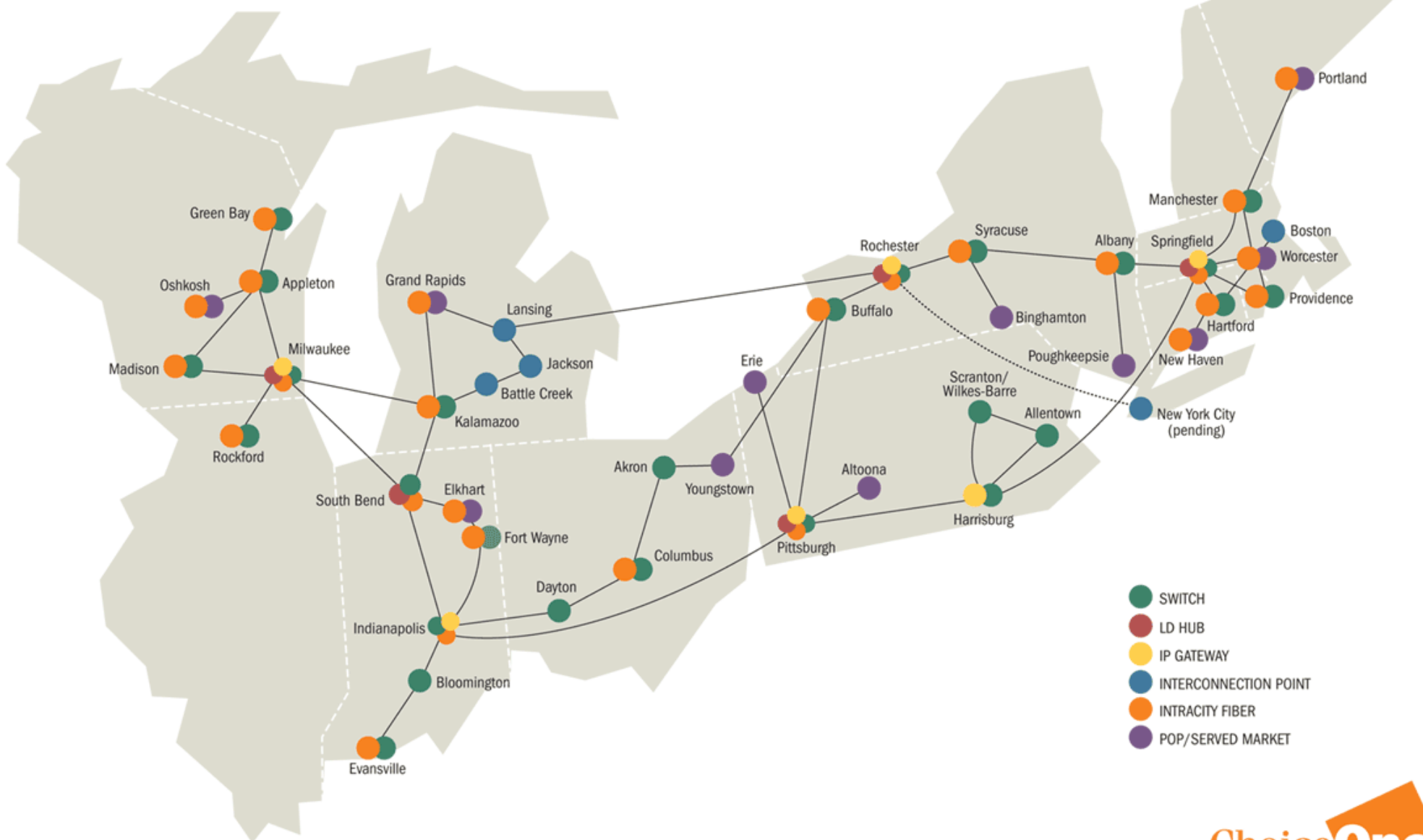
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COLUMBIA FIBER SOLUTIONS

● **Dark Fiber**
● **Transparent LAN Services**

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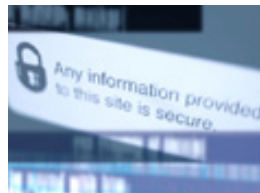
Columbia Fiber Solutions has been in the business of Transport Services delivered over fiber optics for years. By staying focused on providing high quality Transport Services, we have not spread ourselves too thin by trying to be everything to everyone. This approach has ensured that our customers get the very highest quality of service. Columbia Fiber Solutions offers both Dark Fiber and Transparent LAN Services (TLS), depending on the customer's needs. All of Columbia Fiber Solutions' services offer the high reliability, flexibility and security that our customers demand.

Columbia Fiber's experienced sales staff can help you figure out whether Dark Fiber or TLS Services would better fit the needs of you and your business.

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COLUMBIA FIBER SOLUTIONS

● **Why Dark Fiber?**
● **Critical Benefits**
● **Optimizing Your Investment**
● **Frequently Asked Questions**

PRODUCTS

WHY DARK FIBER?
The advantages of Columbia Fiber Solutions' dark fiber services are unmatched and specifically tailored to our customers' individual business' needs.

Virtually Unlimited Bandwidth at a Fixed Cost
You pay a flat fee for the fiber you lease, regardless of how you use it. This arrangement increases in value as your bandwidth needs expand, resulting in continuous reduction in local loop telecom costs.

Customer Control and Flexibility
A direct connection to our extensive fiber optic network puts you in the driver's seat with a flexible, custom configuration to meet your unique requirements. Unlike other options, you control transmission speed and the associated cost using your own optical transmission equipment. You remain in control and can continue to design and provision your network to meet your needs.

Independence
Dark fiber connections free you from the limited product offerings of local carriers. You can create your own configurations and easily evolve by simply upgrading your electronics. By connecting directly to a collocation facility, you have your choice of internet service providers and the ability to change as often as needed.

Security and Reliability
As the sole user of your fiber, no one can access your network or data. No longer will you be at the mercy of the service provider to troubleshoot problems with electronics or outages associated with those electronics. Nor will your data route through a central office, thereby eliminating the danger of "dropped" data due to congestion in the network. Using ring configurations and diverse paths, our fiber optic network gives you the option of total redundancy for mission critical applications and complete peace of mind.

Connectivity
Finally, you can be assured of fast and reliable Internet connectivity for data sharing, large bandwidth file transfers and many other operating efficiencies. We'll make it easy for you to share voice switches between locations, to centralize servers and outsource functions such as web

hosting and server management. You'll be able to link online resources and databases for increased distance learning and shared applications. With Columbia Fiber Solutions, connecting regional data storage systems, satellite offices, subsidiaries, warehouse and affiliated businesses becomes a breeze. And upgrading facilities for advanced data technologies, information systems and e-business applications is an easy and efficient process.

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OPTIMIZING YOUR INVESTMENT

At Columbia Fiber Solutions, we design, build, lease and maintain high-quality, high-capacity, high-bandwidth, dark fiber optic networks providing you the infrastructure to "own" a fiber optic network, without the bother and expense of network construction.

Columbia Fiber Solutions is strategically connected to important points of "communications presence" throughout our community. Points such as ILEC and CLEC central offices, ISP and ASP facilities interexchange carrier hotels and wireless providers. And with more than 300 miles of fiber, you can be sure that we traverse the business districts of highest density that are close to your business making it easy to create a dark fiber solution that best fits your needs.

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COLUMBIA FIBER SOLUTIONS

● **Why TLS?**
● **Critical Benefits**
● **Optimizing Your Investment**
● **Frequently Asked Questions**

PRODUCTS

WHY TRANSPARENT LAN SERVICES?

Inland NW enterprises are increasingly looking to Ethernet service offerings to make their operations more efficient and reduce costs. Some of the benefits Ethernet based transparent LAN services from Columbia Fiber Solutions include:

Ability to provision varying service levels

As opposed to many traditional telco service offerings, Ethernet users are able to control their investment in service levels and customer premise equipment. Users are not forced into a one size fits all service offering that forces them to economize by realizing a less than optimal service level or paying for bandwidth that is not needed.

Ability to scale your investment

Ethernet TLS services from Columbia Fiber Solutions allow users to increase their bandwidth without replacing their equipment. Columbia Fiber Solutions can provision any combination of base service and burstable service at or below 100 Mbps and change these levels with one phone call (no truck roll required). The equipment required to establish Ethernet connections is a fraction of the cost of establishing uplinks to traditional TDM services at similar data rates.

Ease of Provisioning

Traditional service providers required time consuming, expensive processes to provision new circuits or upgrade existing circuits. Transparent LAN Services from Columbia Fiber Solutions can be provisioned in minutes once the fiber connection is in place. Should you need to increase your bandwidth connection once established, its easily accomplished with a phone call and no truck roll.

Minimal Management Overhead

As Ethernet has come of age in the the Inland NW, organizations no longer need sophisticated IT departments with specialized skills to manage these networks both within the building and across metropolitan networks between buildings. The number of network elements descreases as Ethernet cable can be plugged directly into existing LAN aggregation equipment or firewalls. The simplicity of provisioning and network management tools facilitates remote diagnostic and repair procedures. The same employees responsible for managing the LAN already have the skills to manage an Ethernet based wide area network.

As a result, the cost of hiring and training these professionals has decreased.

Connectivity

Finally, with Ethernet based transparent LAN services from Columbia Fiber Solutions you can be assured of fast and reliable Internet connectivity for data sharing, large bandwidth file transfers and many other operating efficiencies. By connecting directly to a collocation facility, you have your choice of Internet service providers and the ability to change as often as needed. We'll make it easy for you to share voice switches between locations, to centralize servers and outsource functions such as web hosting and server management. You'll be able to link online resources and databases for increased distance learning and shared applications. With Columbia Fiber Solutions, connecting regional data storage systems, satellite offices, subsidiaries, warehouse and affiliated businesses becomes a breeze. And upgrading facilities for advanced data technologies, information systems and e-business applications is an easy and efficient process.
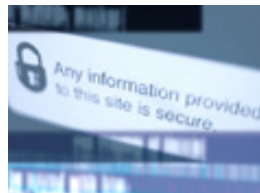
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OPTIMIZING YOUR INVESTMENT

At Columbia Fiber Solutions, we design, build and maintain high-quality, high-capacity, high-bandwidth, Transparent LAN Service (TLS) networks providing you the infrastructure to transport data at LAN speeds to remote locations, or to the Internet Carrier of your choice. Columbia Fiber Solutions is strategically connected to important points of "communications presence" throughout our community. Points such ISP and ASP facilities inter-exchange carrier hotels and wireless providers. And with more than 300 miles of fiber, you can be sure that we traverse the business districts of highest density that are close to your business making it easy to create a TLS solution that best fits your needs.

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Broadband Commuter®

PRODUCT FEATURES

High-Speed, always-on connection — The high-speed connection gives your off-site employees instant access to key information. And allows them to relay data as quickly as if they were down the hall. No dialing in or logging on. No busy signals or tied up phone lines. Just quicker e-mails, faster file transfers — and a lot less downtime.

Business-class support and a dedicated account team — Your business can't wait for technical problems. Which is why our technical support team is on call, 24 hours a day. Your account will also be assigned a dedicated account team ready to provide support on a first name basis.

Simplified bills — We provide a single bill for all your employee locations. Standard billing reports are conveniently available by organization, department, or individual user.

Online serviceability checks and ordering — Using our Comcast Teleworker portal, you can quickly determine serviceability for new employees, place orders, and manage your existing locations.

Complimentary access to Comcast.net — At Comcast.net, your employees will find interactive financial tools, weather listings, news stories, and more. They'll also get seven complimentary Comcast.net e-mail addresses for family and personal use.

Customer-managed VPN (Virtual Private Network) — Your custom VPN allows you to manage your own security and user access policies.

PRICING

Comcast Teleworker is available in two service levels. The STANDARD level includes everything we've described thus far. Or, for those who demand even faster speeds, we offer an ENHANCED version. Please note, the pricing below reflects the maximum price per employee location. Volume-based discounts are available. Ask your salesperson for details.

	STANDARD	ENHANCED
Download Speeds	5.0 Mbps	6.0 Mbps
Upload Speeds	512 Kbps	768 Kbps
Monthly Service Charge (per employee location)	Starts at $60	Starts at $80
Minimum Contract Term	One year	One year
Minimum Order	10 employee locations	10 employee locations
Standard Professional Installation Fee	$99 (per employee location)	$99 (per employee location)

Available schedule based on number of employee locations.

For Terms and Conditions, click here.

*Use is subject to the Comcast Teleworker Master Services Agreement. A copy of the Master Services Agreement and General Terms and Conditions may be obtained by calling Comcast Business Internet Sales at 1-800-316-1619.

Actual speeds may vary and are not guaranteed. Available in limited Comcast wired and serviceable areas only. Prices shown do not include applicable taxes or fees. Additional fees may apply for early termination.

**Standard professional installation fee applies to standard installation to one existing cable outlet. Custom installation charges are additional. Installation fees may vary according to your service area.

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BUSINESS PRODUCTS

Comcast Workplace - Standard

BUSINESS OVERVIEW

COMCAST TELEWORKER

SMALL BUSINESS

Comcast Workplace Standard provides the speed, security and service your business requires. Save time and increase productivity at a small business price.

Talk to us about your business Internet needs — call 800-316-1619

Package Features:

100 % Pure Broadband Connection

Up to 5.0 Mbps* downstream

Up to 512 Kbps* upstream

7 comcast.net e-mail addresses

1 dynamic IP address

Firewall to help protect your network

Local area network ready

Domain name service

Priority Business Class support

Optional Features:

Business Class e-mail (@yourcompany.com)

Business web site hosting (www.yourcompany.com)

Equipment:

Comcast managed IP gateway (Firewall/Router) included

Price:

Standard Professional Installation: $250.00***

Monthly Service Charge: $95.00 with 1 year contract.***

For Terms, Conditions and Policies, <u>click here</u>.

Talk to us about your business Internet needs — call 800-316-1619

*Speed comparisons are for downloads only and are compared to 1.5Mbps DSL. Upload speeds are capped and are compared to 128Kbps DSL. Actual speeds may vary and are not guaranteed. Many factors affect upload and download speed, including, without limitation, the number of workstations using a single connection. Ask about speed when you call. Available in limited Comcast wired and serviceable areas only.

**As a result of network enhancements or upgrades, statically assigned IP addresses may change periodically.

***Standard professional installation fees start at $200.00 and apply to standard installation to one existing cable outlet. Custom professional installation fees may be required and are in addition to Standard professional installation. Professional installation fees may vary according to your service area. Prices shown do not include applicable taxes or fees. Early termination fees may apply.

<u>Contact Comcast</u>

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BUSINESS PRODUCTS

Comcast Workplace - Enhanced

BUSINESS OVERVIEW—

COMCAST TELEWORKER—

SMALL BUSINESS

Full Speed ahead with download speeds up to 4 times faster than a T-1. It is the ultimate high-speed service.

Talk to us about your business Internet needs — call 800-316-1619

Package Features:

100% Pure Broadband Connection

Up to 7 Mbps* downstream

Up to 768 Kbps* upstream

20 Business Class e-mail addresses (or 7 comcast.net e-mail addresses)

1 dynamic IP address

Firewall to help protect your network

Local area network ready

Domain name service

Priority Business Class support

Optional Features:

Additional Business Class e-mail addresses(@yourcompany.com)

Business web site hosting (www.yourcompany.com)

Equipment:

Comcast managed IP gateway (firewall/router) included

Price:

Standard Installation: $250.00***

Monthly Service Charge: $160.00 with 1 year contract.***

For Terms, Conditions and Policies, click here.

Talk to us about your business Internet needs — call 800-316-1619

*Speed comparisons are for downloads only and are compared to 1.5Mbps DSL. Upload speeds are capped and are compared to 128Kbps DSL. Actual speeds may vary and are not guaranteed. Many factors affect upload and download speed, including, without limitation, the number of workstations using a single connection. Ask about speed when you call. Available in limited Comcast wired and serviceable areas only.

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Contact Comcast

PRODUCTS & SERVICES >>> OVERVIEW

Con Edison Communications (CEC), a subsidiary of Consolidated Edison, Inc., is the 'Smart Alternative' Competitive Local Exchange Carrier (CLEC). CEC offers a comprehensive range of data and voice transport products and services designed to enhance the performance of our customers' networks. CEC builds and operates its own fiber optic network providing managed data transport services, custom networks, local and long distance voice services and Internet services. CEC serves local and long-distance carriers, Fortune 1000 corporations, small and medium businesses, and Internet, cable, wireless and video companies. CEC's New York City metro area network continues to grow and currently interconnects over 100 commercial buildings, all major carrier Points-of-Presence (POPs) and many of the Verizon Central Offices in New York City.

CEC delivers the answers and supports your needs, wherever, whenever you need us, 24x7x365, with no compromise, period. When you sign on with CEC, you are supported by our:

- ADVANCED NETWORK OPERATIONS CENTER for total service coverage
- PROACTIVE MONITORING by a world-class team of network professionals
- SINGLE POINT OF CONTACT for all customer service
- GUARANTEED RESPONSE TIMES and RESOLUTION MEAN TIMES
- INTEGRATED BILLING for all your CEC services
- SERVICE LEVEL AGREEMENTS designed around your specific requirements

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PRODUCTS & SERVICES >>> BUSINESS SERVICES

Does your business need help in planning a Voice and Internet service strategy? Do your employees collaborate electronically among multiple offices? Are you starting up a new business or moving your business to a new location? Is your office outgrowing your current telecommunications arrangement? Are you dissatisfied with your current service provider?

Con Edison Communications (CEC) understands the technical challenges facing small and medium sized businesses. CEC is founded on a tradition of reliability and service quality that you and your business demand. Our flexible, competitively priced Voice and Internet service configurations utilize network transport technologies, including DS-1, DS-3, Ethernet, and SONET, which are best suited to meet your needs. Once your solution is up and running, CEC's on-going customer service will support your communication needs.

Choose the "Smart Alternative" and contact Con Edison Communications today!

Contact:

Charles Athanasia
Chief Commercial Officer
Con Edison Communications
55 Broad Street, 22nd Floor
New York, NY 10004
212-631-8995
AthanasiaC@ConEdCom.com

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PRODUCTS & SERVICES >>> ENTERPRISE SERVICES

Con Edison Communications (CEC) is the only telecommunications provider to offer a robust and diverse network utilizing both the ECS (Empire City Subway System) and the Electric Utility Conduits. This eliminates single points of failure faced by current service providers. CEC offers a wide range of Enterprise telecommunications solutions at competitive prices. Our data transport, voice, and IP services are tailored to the needs of your business. CEC's competitive prices and rapid installs will have your firm up and running on our industry-leading network.

CEC delivers services to the following vertical markets:

Financial Services - SAN/ Remote mirroring, Metro LAN, Video services, STP
Telecommunications - Next generation data services, Building access
Healthcare - PACS, HIPAA compliance
Media & Entertainment - Real time film editing, Remote broadcast HDTV

CEC is founded on a tradition of reliability and service quality that you and your business demand.
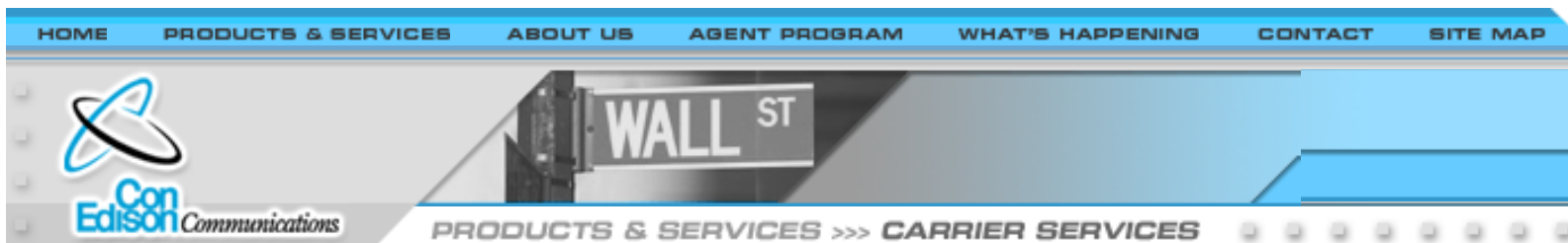
Choose the "Smart Alternative" and contact Con Edison Communications today!

Contact:

Charles Athanasia
Chief Commercial Officer
Con Edison Communications
55 Broad Street, 22nd Floor
New York, NY 10004
212-631-8995
AthanasiaC@ConEdCom.com

PRODUCTS & SERVICES >>> CARRIER SERVICES

Are you a carrier or ISP in search of next generation data services, metropolitan area transport, custom networks, central office deployment, or co-location services? Is your banking or brokerage customer researching storage area networking, metropolitan LAN's, or private networks? Does your media company require digital video transport services? Sophisticated end-users and carriers have entrusted Con Edison Communications with mission-critical network infrastructure. Our clients know that they can count on CEC's reputation for reliability. CEC is the 'Smart Alternative' for your needs because:

- CEC is the only New York telecommunications carrier that utilizes both the telecommunications and electric/gas rights-of-way to offer true, physical diversity
- Every carrier hotel in the New York City metropolitan area is On-Net
- CEC is within 2 city blocks of 80% of Manhattan commercial real estate
- CEC is fully franchised by the City of New York to construct network backbone and build when and where customers demand

When you choose the CEC solution, you can expect:

- Rapid provisioning - 15 days for On-Net buildings, 60 days for off-net buildings
- Customer care officer - Responsible for customer satisfaction and future requirements
- Web-based management tools - Custom configuration and reporting

Choose the "Smart Alternative" and contact Con Edison Communications today!

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PRODUCTS & SERVICES >>> POWERLAN ETHERNET SERVICE

PowerLan Ethernet Service

PowerLan Ethernet Service combines the reliability and ubiquity of Ethernet with next-generation metro area transport technology. The result is a service that delivers an efficient, fully restorable, easily managed network. CEC's PowerLan Ethernet Service enables you to seamlessly extend your Ethernet network beyond your local building into the metro area and beyond.

PowerLan Ethernet Service Features

- Highly scalable and variable transport speeds from 10 Mbps to 100 Mbps to Gigabit Ethernet
- Resilient transport services for high reliability
- Point-to-point LAN extension connectivity
- Switched Ethernet for point-to-multipoint connectivity
- Standards-based IEEE Ethernet service for Layer 2 transport
- Protocol transparent
- 802.1p/Q VLAN with VLAN trunking supported
- 24x7 network monitoring
- Quality of service profiles

Benefits

- Variable bandwidth enabling you to fine-tune your network needs at each location
- Seamless interconnection with no additional equipment on your premises
- No protocol conversion required, ensuring seamless interoperability between LAN and MAN
- Cost effective on both a cost per bit and cost per port basis
- Easier installation and management allow for rapid provisioning compared to other platforms
- Delivered directly to you via Cat 5e wiring or fiber
- Predictable cost modeling for future network build outs
- Scalable for long term network evolution
- Carrier grade network for high reliability

View PowerLan Ethernet PDF

PowerProtect Data Backup Service

Remote Backup and Restore Made Easy PowerProtect simplifies every aspect of protecting your data - its easy to set-up, provides automated backups and rapid web-based restores. It minimizes the impact on your servers and network, and reduces operating and storage management costs.

PowerProtect Data Backup Service Features

- Network-based data protection for servers and personal computers
- Multiple restore points with flexible retention options
- Highly efficient backups with low impact on server and network performance
- Provides a full restore point everyday without the impact of a full backup
- Multi-platform support (Windows, Red Hat Linux, Solaris)
- Built in open file protection for Windows
- 24 x 7 support through CEC's network operations center
- Usage tracking and analysis via customer portal

Benefits

- Protects data in secure off-site facility
- Reduces restore times in the event of data loss
- Single point of management across multiple sites
- Leverages existing network
- Automates backup activities
- Reduces risk of data loss and exposure
- Improves quality and thoroughness of backups
- Requires no resources or staff to operate
- Simple to deploy, pay as you go service
- Guaranteed restorability
- Removes speed and distance limitations

View PowerProtect Data Backup PDF

PRODUCTS & SERVICES >>> **POWERCONNECT CO-LOCATION SERVICE**

PowerConnect Co-location Service

CEC's PowerConnect Co-location Service allows you to expand your network quickly and efficiently using our state-of-the-art hub facilities. Together with our other managed transport services, PowerConnect Co-location gives you a fully integrated, single source solution for virtually all of your connectivity requirements.

**PowerConnect Co-location Service Features**

- Controlled access to facilities
- Fully secure cabinets and equipment areas
- Climate controlled space with fault-tolerant systems
- Redundant back-up generators and HVAC systems
- Pre-action dry fire-suppression systems
- 24x7 network monitoring

Benefits

- Easily connect to local sites with CEC's regional distribution network
- Ready access to national and international networks via our interconnection points at major POP locations throughout the New York metropolitan area
- Launch services to market more quickly and efficiently
- Deliver facilities-based services with minimal upfront investment
- Expand your network's reach and increase its efficiency

View PowerConnect Co-location PDF

PRODUCTS & SERVICES >>> POWERWAVE WAVELENGTH SERVICE
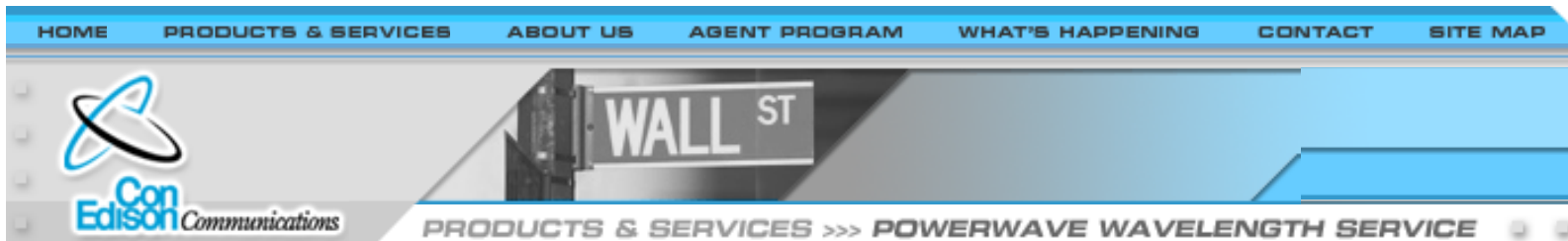
PowerWave Wavelength Service

PowerWave Wavelength Service is the alternative that network service providers seek for overcoming access and capacity constraints within the New York metropolitan area and beyond. It is the state-of-the-art fiber optic solution for addressing network logjams. CEC's PowerWave Wavelength Service provides a cost-effective, efficient way to increase network capacity.

PowerWave Wavelength Service Features

- 1.25 GB scalable to 10 GB Dedicated Protocol Transparent Capacity
- ITU standards-based DWDM equipment provides multi-vendor interoperability
- Restorable transport services for high reliability
- Protected - diverse, non-diverse
- Flexible configuration offering protected and unprotected transport
- 99.95% availability
- 24x7 monitoring and support
- Prime locations in the New York metropolitan area
- Supports Fibre Channel, EsCon, FiCon

Benefits

- Reduces time-to-market when expanding network capacity
- Provides a cost effective means for building diverse network protection
- Reduce costs by eliminating network management duplicity
- Predictable cost modeling for network build outs

View PowerWave Wavelength PDF

PowerOptic SONET Service

PowerOptic SONET Service provides the flexibility to right size your network for today's market while being ready for tomorrow's opportunities. PowerOptic SONET Services provide high-capacity, highly reliable, and redundant backbone network transport.

PowerOptic SONET Service Features

- DS-1 scalable to OC-192
- SDH transport available
- Restorable transport services for high reliability
- Point-to-point and hub-to-multipoint topology
- Protected - diverse, non-diverse
- 15-day interval for provisioning new circuits in on-net buildings
- 24x7 network monitoring
- Prime locations in the New York metropolitan area

PowerOptic DS-1 Service Features

- DS-1 transport service is protocol agnostic
- Supports voice, data and video traffic
- Transported over CEC's fully redundant SONET network
- Business to Business access to hundreds of building locations
- Network to network interconnection
- Metropolitan distribution networks for CLECs, BLECs and other service providers

Benefits

- Guaranteed compatibility through widely accepted SONET standards
- Cost effective mechanism for right-sizing a network
- Rapid provisioning for future-proofing initial circuit installations
- Predictable cost modeling for network build outs
- Carrier grade network for high availability

View PowerOptic SONET PDF

PRODUCTS & SERVICES >>> POWERNET INTERNET SERVICE

PowerNet Internet Service

Con Edison Communications' PowerNet Internet Service offers a high speed dedicated access solution that gets your business connected on-line efficiently and affordably. If you want business class Internet access and DNS, plus low latency and high reliability, PowerNet Internet Service is the answer. It's backed up by the most advanced network support systems in the New York metropolitan area and excellent customer service. Get your business on-line fast with PowerNet Internet Service from Con Edison Communications.

PowerNet Internet Service Features

- Dedicated access from 1.544 Mbps to 1 Gbps
- Robust SLA's
- Domain name service and maintenance
- 24x7 network monitoring

Benefits

- Flexible offerings that meet your business needs
- Scalable service and network configurations
- Seamless migration from your current provider
- Multiple Tier 1 routes to the Internet
- Multiple access and transport media (DS-1, DS-3, Ethernet, and SONET)

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PRODUCTS & SERVICES >>> POWERCALL VOICE SERVICE

PowerCall Voice Service

Con Edison Communications' PowerCall Voice Service provides reliable, competitively priced T1 or PRI access, local calling, toll free service, and long distance, both domestic and international. You get the support of a world-class team of network professionals, with 24x7 coverage through our Advanced Network Operations Center. And to help make it all easier for you, every Con Edison Communications voice service is summarized on one convenient invoice.

PowerCall Voice Service Features

- Digital T1 Service
- PRI Service
- Local Calling
- Domestic long distance (intrastate and interstate) offering Dedicated Outbound, Dedicated Toll-Free, Switched Outbound, and Switched Toll-Free
- International long distance
- Operator assistance/911 services
- Directory assistance/Directory listings
- 24x7 network monitoring

Benefits

- All-in-one invoicing of services
- Competitively priced voice offerings
- Reliable service provided by Con Edison Communications' experienced team of professionals
- Unprecedented levels of service, support, and satisfaction

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PRODUCTS & SERVICES >>> POWERCALL PLUS SERVICE

PowerCall Plus Service

Con Edison Communications' PowerCall Plus combines comprehensive voice services with high-speed Internet connectivity on the same circuit. Customers can now take advantage of an integrated suite of voice options and calling features plus low cost Internet access delivered over reliable T1 transport. One provider, one circuit, one bill, one contact, two services. Start saving on both services today with Con Edison Communications' PowerCall Plus.

PowerCall Plus Service Features

- All-in-one voice and Internet service
- Flexible offering of 8 to 24 voice channels with 256 Kbps, 512 Kbps, or 1.5 Mbps Internet access
- Local, domestic, and international long distance, plus toll-free calling
- Call forwarding, call forward busy, call waiting, three-way calling, caller ID blocking, hunting and 976/900 blocking
- 24x7 network monitoring

Benefits

- Reduce your costs by eliminating the need for additional T1s
- Convenient bundling of services and billing
- Scalable to match your business growth
- Efficient allocation of bandwidth
- Competitively priced
- Excellent customer care

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ABOUT US

Executive Bios | 5 Pillars | Careers

Con Edison Communications (CEC), a subsidiary of Consolidated Edison, Inc., is the 'Smart Alternative' Competitive Local Exchange Carrier (CLEC). CEC offers a comprehensive range of data and voice transport products and services designed to enhance the performance of our customers' networks. CEC builds and operates its own fiber optic network providing managed data transport services, custom networks, local and long distance voice services and Internet services. CEC serves local and long-distance carriers, Fortune 1000 corporations, small and medium businesses, and Internet, cable, wireless and video companies. CEC's New York City metro area network continues to grow and currently interconnects over 100 commercial buildings, all major carrier Points-of-Presence (POPs) and many of the Verizon Central Offices in New York City.

CEC delivers the answers and supports your needs, wherever, whenever you need us, 24x7x365, with no compromise, period. When you sign on with CEC, you are supported by our:

- ADVANCED NETWORK OPERATIONS CENTER for total service coverage
- PROACTIVE MONITORING by a world-class team of network professionals
- SINGLE POINT OF CONTACT for all customer service
- GUARANTEED RESPONSE TIMES and RESOLUTION MEAN TIMES
- INTEGRATED BILLING for all CEC services
- SERVICE LEVEL AGREEMENTS designed around your specific requirements

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The Proven Choice in Telecommunications℠

+ About Us

Conversent is a facilities-based communications provider that offers businesses a broad portfolio of voice, data and Internet Services that are bundled to meet the specific needs of each customer.

Recognized as one the Northeast's premier telecommunications providers, Conversent provides its clients innovative and flexible communication solutions backed by a dependable network and a knowledgeable and dedicated customer support staff. Conversent was co-founded in 1998 by cable entrepreneur Robert Fanch and Conversent's president and CEO, Robert Shanahan.

Conversent currently provides services to more than 38,000 business customers and employs 595 sales, technical and support staff in 22 offices from Maine to New Jersey. The company's expansive network includes six Class 5 telephone switches and 80 Data switches and more than 2000 miles of fiber optic network.

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The Proven Choice in Telecommunications℠

+ Products and Services

Conversent Communications offers a complete portfolio of voice, Internet, and data solutions to meet the demands of any business.

Conversent - The Proven Choice in Telecommunications (SM).

Voice Solutions	**Internet & Data Solutions**
+ **Business Lines (Local Service)**	+ **Internet Solutions**
+ **Centrex Service**	- DSL
+ **Digital T1 Voice Services**	- Integrated Service
+ **ISDN PRI Service**	- Dedicated Internet Access
+ **Integrated Service**	- Wireless Services
+ **Long Distance Service**	- Dial Up
+ **Toll Free Services**	- Internet Security
+ **Calling Features**	Managed Firewall
- Business Line Features	VPN
- Centrex Line Features	+ **Private Networks**
+ **Voice Conferencing**	- Secure Private Networks (ATM)
+ **Calling Cards**	- Point-to-Point Services
+ **Voicemail Services**	- Internet Security
	Managed Firewall
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	+ **Hosted Services**
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- Critical Security

COX BUSINESS SERVICES PRODUCT PORTFOLIO

VOICE PRODUCTS	DATA PRODUCTS	VIDEO PRODUCTS	OTHER PRODUCTS
Cox Digital Telephone and Voice Mail	Cox Business Internet	Cox Commercial Cable	Cox Carrier Access Service
Cox Centrex Telephone	Cox Optical Internet		Cox SmartBill
Cox Digital Trunk	Cox Web Hosting Packages		Cox Enterprise Connectivity
Cox Long Distance and Toll Free	Cox Fibernet		Cox Commercial Building Service
Cox Dedicated Long Distance and Toll Free	Cox Transparent LAN		
Cox Private Line	Cox Virtual Private Network		

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Cox Centrex Telephone	Cox Centrex is a feature-rich, expandable telephone service that is ideal for businesses whose needs are changing and whose budgets require minimal upfront investment. >> View Details 📄 Product Data Sheet
Cox Digital Trunk	Cox Digital Trunk service provides reliable digital-quality voice transmission while securely connecting your business's PBX directly to the public switched telephone network. >> View Details 📄 Product Data Sheet
Cox Long Distance and Toll Free	Cox Long Distance and Toll Free services provide your business clear connections with convenient options and cost-effective plans to meet your long distance needs and budget. >> View Details 📄 Product Data Sheet
Cox Dedicated Long Distance and Toll Free	Cox Dedicated Long Distance and Dedicated Toll Free services provide your business with clear, high-quality phone communications with all the benefits of dedicated access, including lower rates, less call blocking and plenty of call capacity. >> View Details 📄 Product Data Sheet
Cox Private Line	Cox Private Line service is the ideal solution for high-capacity, quick-connecting communications for any business or organization experiencing increasingly high demands on its network for stand-alone or integrated voice and data communications. >> View Details 📄 Product Data Sheet

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Cox Optical InternetSM	Cox Optical Internet^{SM} is the reliable and scalable high-speed Internet service that gives your business dedicated access to our network with flexible tiered bandwidth options scalable to OC-12 or higher.* >> View Details 📄 Product Data Sheet
Cox Web Hosting and Packages	Cox Web Hosting and Cox Web Hosting Packages allow your business to establish and maintain a professional and functional Web presence that is cost-effective and easily upgradable. >> View Details 📄 Product Data Sheet
Cox FibernetSM	Cox Fibernet^{SM} service is a SONET-based, point-to-point private line network service that is the ideal solution for high-capacity, high-quality digital transmissions for stand-alone or integrated voice and data communications. >> View Details 📄 Product Data Sheet
Cox Transparent LAN	Cox Transparent LAN Service (TLS) will interconnect your LANs over our all-optical metro networks, giving your enterprise point-to-point connections between remote sites in a framework that's scalable, cost-effective and reliable. >> View Details 📄 Product Data Sheet
Cox Virtual Private Network	Cox Virtual Private Network service is a fully managed, turnkey solution that gives employees in any location fast, secure access to your network and connects remote offices to a central network. >> View Details 📄 Product Data Sheet

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| **Cox Commercial Cable** | Cox Commercial Cable service provides more than 100 channels of consistent, crystal clear digital cable television and Music Choice options for businesses of all types and sizes. |
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Cox Carrier Access Service	Cox Carrier Access service is the ideal solution for secure and reliable connections to your stand-alone or integrated voice and data customers. >> View Details 📄 Product Data Sheet
Cox SmartBill®	Cox SmartBill® is an invoice analysis tool that conveniently tracks the details of your company's telecommunications usage. >> View Details 📄 Product Data Sheet
Cox Commercial Building Service	Cox Commercial Building Service offers a strategic advantage to builders, developers and property managers by connecting their buildings to our robust network and providing tenants with easy access to our efficiency-enhancing products. >> View Details
Cox Enterprise Connectivity	Cox Enterprise Connectivity is a robust, efficient and cost-effective communications solution for enterprises seeking to connect remote workers, customers and suppliers across the country. >> View Details 📄 Product Data Sheet

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- LA - New Orleans
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- MS - Greenville
- NC - East North Carolina

- NE - Omaha
- NV - Las Vegas
- OH - Cleveland
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ABOUT US

A Quick Overview

Cox Business Services is the business-to-business division of Cox Communications, Inc., the third largest cable provider in the nation and twelfth largest telephone company with more than six million customers.

Cox Business Services is a facilities-based provider of advanced voice, data and video products and services to more than 100,000 business customers in industries ranging from healthcare and hospitality to government and education. The backbone of our capability as a communications provider is our self-owned and self-maintained nationwide IP network. Thousands of miles of fiber-optic cable make up the Cox system, designed with self-healing, fault-tolerant SONET architecture for enhanced dependability. And with our state-of-the-art Network Operations Centers monitoring the Cox network on a 24/7 basis, you're assured of consistent, reliable voice, data and video services for your business when you need them most.

Award-winning quality and service are the hallmarks of our business, with numerous honors and industry accolades illustrating the high level of customer satisfaction for which Cox Communications, and Cox Business Services, are well known.

A Brief History

The origin of the Cox enterprise dates back more than 100 years. The communications business got its start in 1962, when Cox built high-quality networks and began delivering quality cable television programs. Since that time, Cox Communications has grown to become the third-largest cable provider in the nation, with more than six million residential customers. The origins of the Cox Business Services division date back to 1987, when management began rebuilding its cable infrastructure into a fiber-optic, high-capacity broadband network. In 1993 Cox began offering competitive access services to small businesses and large enterprises alike in the Hampton Roads region in Virginia. By 1996 the company extended its business products under the Fibernet brand to include data transmission services carried over fiber-optic MANs (metropolitan area networks).

Cox Business Services continued to expand into new markets throughout the nation, and by 2003 the company celebrated its 100,000th customer location. Today, Cox offers a full suite of voice, data and video services for small, medium and large businesses as well as for government and education in more than 36 markets, from California to New England.

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Product Overview

Custom solutions backed by 23 years of communications expertise.
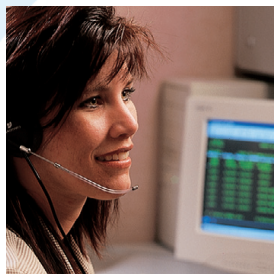
For more than two decades, CTC Communications has been designing, implementing and managing mission critical applications for business clients competing in a broad range of challenging industries. We offer a comprehensive portfolio of communications products and services that can be tailored expressly to the unique operating requirements of your business, including:

■ PowerPath® Network

Combine your voice, data, video and Internet communications using a single broadband connection. CTC makes it easy with PowerPath®. PowerPath® delivers the speed, efficiency and flexibility previously available only to very large telecommunications users or network carriers. CTC's packet-based PowerPath® Network uses a certified Cisco Powered Network® infrastructure and a redundant fiber-optic backbone to securely and reliably transmit your critical data. And, with 24/7 network monitoring via our state-of-the-art Network Operations Center (NOC), we can detect most problems before they ever become your problem.

■ IntelliVIEW℠

IntelliVIEW is an online application that transforms your ordinary phone bill into a strategic cost-management tool. Receive regularly scheduled customizable reports via e-mail and analyze your bill to better manage communications expenses with CTC's IntelliVIEW.

■ Internet Solutions

CTC offers a fully redundant, direct access, Internet portfolio that includes broadband access, a secure web-mail service and a unified messaging platform. Our data centers support web hosting solutions, including shared, dedicated and collocation services. Additionally, we can provide business customers with off-site customer storage and e-commerce support.

■ Data Solutions

Businesses today are using CTC's reliable and robust frame relay service to securely link branch offices, establish intra-company video connections, and to connect with their largest vendors. Our frame relay product is designed to accommodate emerging network demands like Voice over IP (VoIP) and our Inverse Multiplexing for ATM (IMA) provides a scalable and cost-effective solution for supporting bandwidth-intensive applications.

■ Voice Solutions

From calling cards to conference calls to custom applications, CTC has the ideal voice solution for your business. We offer a full portfolio of voice products including local service, competitive long distance, and a broad range of value-added services.

One connection. One bill. One point of contact.

Anybody can get you broadband access, but few can deliver the speed you crave with the increased efficiency, cost-savings, consolidated billing and exceptional customer care that CTC provides. Even fewer can give you live 24/7 coverage and a real human being to talk to when you call in with questions. And, who but CTC gives you a single number for all of your customer service needs including billing, installation, repairs, technical support, and information on new products and services? Want to know more? Call 1-800-TALK-CTC or surf our site at www.ctcnet.com for detailed data sheets on our latest product offerings.

www.ctcnet.com

◯ *CTC* COMMUNICATIONS

The service you want. The technology you need.

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Employee Spotlight

Keeran Shumway, Senior Networks Coordinator

Has been with CTC for six and a half years. She thinks CTC's single point of contact makes the company unique.

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About CTC

CTC is a "next generation" Integrated Communications Carrier utilizing advanced technology and providing medium and larger size business customers with converged voice, data, and Internet services on a broadband, packet-based network, called the PowerPath® Network. For over 20 years, we've been providing cost-effective solutions to medium to large businesses in the Northeast and beyond.

What sets CTC apart? Simply put, our customer service is second to none. Our success has come from maintaining regular contact with our customers, listening to their concerns, and providing them with the best possible solutions.

Our technology also leads the industry. Our PowerPath® Network was expressly designed for an Internet and Internet protocol-based network delivery system. For over five years, CTC has offered the flexible architectural options that our competition is only now beginning to explore. From VoIP to VPN's, we offer the leading edge products and services you're looking for.

username   password

Member Login

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CTC COMMUNICATIONS

The service you want. The technology you need.

Our Products and Services

Converged Services

- PowerPath®

- OptimizerSM

Voice

Data

Internet

Employee Spotlight

James Polmonari, Branch Operations Manager

Enjoys provisioning the CTC product and working with his clients to improve their networks.

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Our PowerPath Network

CTC's PowerPath® Network, one of the most innovative networks in the country, consolidates your voice, data, Internet, and long distance requirements over a single high-speed connection. PowerPath reduces your costs, improves data performance, and positions your company for the IP (Internet Protocol) world of the future.

By consolidating your services, our PowerPath® Network allows you to take advantage of broadband capacity and cost effectiveness without the need for individually dedicated T-1's for different products and services. This broadband connection allows us to dynamically allocate bandwidth based on your varying demand for voice or Internet at any point during the day.

This flexibility is provided by an Integrated Access Device (IAD) installed at your location which allows for 24X7 monitoring from our Network Operations Centers. For customers with large bandwidth requirements, CTC can provide multiple bonded T-1s, DS-3's or OCN services.

PowerPath also offers tremendous flexibility as new technologies become available. The new technologies can be "plugged into" our network, giving you immediate access to the new capabilities. In this sense, PowerPath allows your company to grow with us.

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Calling Card International Access Codes
For questions or comments about this site, please write to website_feedback@ctcnet.com
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The service you want. The technology you need.

Our Products and Services

Converged Services

Voice

- Local

- Long Distance

- Toll Free

- Calling Card

- Conference Calling

- The Power Call

Data

Internet

Employee Spotlight

Lisa Bott, Process Development Manager

Lisa enjoys being able to interact with all of the different departments within the organization.

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Local Service

A complete portfolio of services

CTC's Voice Services can accommodate business customers' growing communication requirements. From local service to competitive long distance plans, our voice solutions are designed to address the complete needs of advanced business applications.

Optimizing your Service

Analyze, recognize, optimize. That's how we approach every customer. We help you analyze calling patterns, recognize trends, and then adopt a plan that works best for you. Our experienced account executives will help you consolidate your phone services to increase your efficiency and lower your costs. For a free evaluation of your current phone services, call us at 1-800-TALK-CTC.

Local Access Lines
T1 Services
- Full or Fractional T1s
- Integrated T1 services for both local and long distance calling.
- Local services can be combined with data/Internet access for a cost effective converged solution
- Direct Inward Dialing, Outbound Calling or Two Way Calling Capability
- Wide variety of Calling Features

ISDN PRI
- 23 voice channels
- Direct Inward Dialing, Outbound Calling or Two Way Calling Capability
- Inbound and Outbound Caller ID
- Direct Inward Dialing (DID)

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Our Products and Services

Converged Services

Voice

Data

- Frame Relay

- Point to Point

- DSL

- VPN

- ATM

- IMA

- Digital Phone

Internet

Frame Relay

Frame relay is an efficient, secure and economical way to transmit your digital data to one or multiple locations from a single point. In a frame relay configuration, each end user is assigned a private line to a frame relay node. Data is then securely transmitted using a dynamic path that is invisible to end users.

CTC is uniquely equipped to meet the high-speed data requirements of today's dynamic business world. Our frame relay product is designed to accommodate emerging network demands like Voice Over IP. VoIP uses the Internet Protocol (IP) to transmit voice as packets over an IP network. Using VoIP, voice communications can be achieved across a private Intranet, an Extranet, or the public Internet.

CTC's frame relay solution establishes a dedicated virtual private line between multiple locations, enabling you to reliably exchange data with confidence. We also make your data our priority by delivering a guaranteed through put rate. Our full port 100% Committed Information Rate (CIR) frame network is built to deliver 100% of your CIR 100% of the time without competing for bandwidth on our High-Speed Data Backbone. You and your data come first.

Click here for our Data Service overview.

Employee Spotlight

Stephen Bouvier, Senior Account Executive

Likes the professional, technical environment at CTC.

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CTC COMMUNICATIONS

The service you want. The technology you need.

Our Products and Services

Converged Services

Voice

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- Internet

- WebMail

Employee Spotlight

Lisa Detomas, Network Coordinator

Has been with CTC for five years at the Springfield, Massachusetts, branch.

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Internet Solutions

The performance and security of a private environment for the price of a VPN

The CTC network was expressly designed to be an Internet and Internet protocol-based network delivery system. And for over five years, CTC has offered the flexible architectural options that our competition is only now beginning to explore. Click here for our Internet Service overview.

Today, companies need to connect quickly and securely with employees, partners, and suppliers in offices scattered from one end of the globe to the other. More and more of these businesses are turning to virtual private networks (VPNs) to accommodate their burgeoning communication demands and CTC is delivering the flexible, secure and reliable networking solutions they need. Our peer-to-peer network connections provide the highest level of security and bandwidth performance available.

At CTC, we offer dedicated access to the Internet using either serial or Ethernet handoffs. The simple, high-throughput, cost-effective connectivity of Ethernet is making it one of the more popular and flexible methods for accessing Internet services today and our experience in this area is extensive.

CTC has peering arrangements with multiple Tier 1 Internet providers to ensure network reliability and reduce downtime. Our fully redundant network infrastructure uses Border Gateway Protocol (BGP) to exchange routing information. BGP is scalable, stable and intelligently directs traffic over the fastest and most efficient routes possible. Access speeds range from 64 Kbps to 45 Mbps to accommodate a broad range of business applications with varying bandwidth requirements. From the simple to the sophisticated, CTC makes an Internet solution that's right for you.

Get bandwidth on demand with burstable Internet

Like most businesses, your demand for bandwidth fluctuates. Sometimes you're busy. Sometimes you're not. That's when a feature like burstable Internet can directly impact your bottom line.

Burstable Internet enables you to maximize T1 efficiency by "borrowing" unused voice channels for Internet use. That means your connection can automatically "burst" to full capacity to accommodate high volumes of traffic when needed. When demand is low, unused channels can be allocated to other applications. Burstable Internet takes advantage of capacity you already have, so you can increase your bandwidth without increasing your costs.

Features and Benefits

Serial or Ethernet connectivity- Flexible architecture can be configured precisely to your needs
Peering arrangements with Tier 1 Internet providers- Provides redundancy at multiple levels
Fully redundant network infrastructure using BGP4- Scalable, stable and supports complex routing configurations
Burstable Internet- Optimizes T1 efficiency, provides bandwidth on demand, and increases capacity without increasing costs
Bandwidth usage reporting- Monitors port activity to maximize efficiency and resources

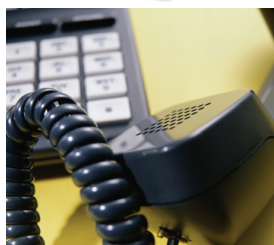Click here for our Internet Service overview.

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Member Login

Voice Solutions

From local to long distance and beyond

From local service and competitive long distance, to a broad range of value-added services, CTC offers a full complement of voice solutions for today's sophisticated business applications —including resold and On-Net voice services on our own PowerPath® Network.

CTC's PowerPath enables you to bundle digital and analog voice plans with your data or Internet service using a single connection. An integrated network is a smart, fast, efficient and cost-effective way to get the communications services you need to compete in a dynamic, technology-driven world.

In addition to our standard portfolio of voice products and services, we also offer advanced functionality such as pass-code accessed conference calling, convenient and easy-to-use calling card services, and custom applications. For a more detailed account of these sophisticated options, visit us online at www.ctcnet.com.

Local Access Lines

CTC network designs accommodate both analog and digital communications technologies. We offer the following local access options for businesses with key telephone systems (KTSs) or private branch exchanges (PBXs):

- *Primary Rate ISDN (PRI) service:* PRI is all-digital technology that provides up to 23 additional voice channels, Direct Inward Dialing (DID), outbound calling or two-way calling capability, and inbound and outbound caller ID.

- *T1 service:* T1 service features a dedicated, high-speed connection and is available in either full or fractional configurations, depending upon your budget and bandwidth requirements. CTC's integrated T1 services combine local and long distance calling with data/Internet access for a cost-effective converged solution. Additionally, T1s accommodate DID, outbound, or two-way calling capability plus a wide variety of calling features and advanced voice services.

Long Distance Services

CTC offers unmatched long distance value for your domestic and international outbound calling. Choose from either dedicated or switched services and enjoy extremely competitive national and international rates. CTC also offers value-added capabilities like account and security code features.

Toll-Free Services (Domestic & International)

Boost your sales and increase customer loyalty with a toll-free service. It's the easiest way for your customers and potential customers to reach you. CTC's toll-free services include enhanced routing features as well as dedicated access features such as Dialed Number Identification Service (DNIS) that enable you to efficiently route inbound calls.

Analyze, recognize, optimize

At CTC, we help you analyze calling patterns, recognize trends, and then adopt a plan that works best for you. Our experienced account executives will help you consolidate your phone services to increase your efficiency and lower your costs. For a free evaluation of your current phone services, call us at 1-800-TALK-CTC.

www.ctcnet.com

CTC COMMUNICATIONS

The service you want. The technology you need.

220 Bear Hill Road ■ Waltham, Massachusetts 02451 ■ 1-800-825-5282

Have you heard the BIG NEWS! Jack Flash® DSL just got faster! We are excited to announce our new Jack Flash High-Speed DSL Internet service, with speeds up to 1.5Mbps/384Kbps. Now you can download e-mail, pictures, streaming audio, streaming video or just surf the web faster than ever before! ....

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  long distance
  equipment

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Whether you need a metered use telephone line, a business bundle, an integrated voice and data circuit, or an advanced IP PBX solution, CTSI will provide you outstanding value with superior customer service. When you partner with CTSI for your telecommunications needs, a dedicated Customer Account Manager will be assigned to your business, providing the individualized attention you deserve. Contact CTSI today and see the difference in a company that truly cares about its customers!

call toll free: 1-888-278-8783

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bundles

business solutions
▶ bundles
    unlimited connections
    business essential
    business builder
    business advantage
    business netvantage
    business assistant
integrated voice & data
voice solutions
dsl & data
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equipment

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CTSI Business Line(s) — combined with unlimited local service for one flat rate — makes CTSI's Business Bundles the perfect choice for your business. Bundles save you time and money by packaging the services you need, making it simple for you and an optimal decision for your business. Additionally, all bundles include the personal service of your Customer Account Manager.

Choose from

- Unlimited Connections

- Business Essential

- Business Builder

- Business Advantage

- Business NetVantage

- Business Assistant

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- dsl & data
- long distance
- equipment

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integrated voice & data

Combining voice, long distance and Internet access all on a single digital facility provides your business both flexibility and reliability. CTSI can help you customize your communications system to meet the needs of your business. T1 Integrated Solutions can be configured for all of your telecommunications applications — from the simplest to the most sophisticated. And as your business grows and changes, your service can change with it.

FlexT - Local, Long Distance and Internet

SmarT-1 - Voice (Long Distance and Internet access are options.)

T+ - Voice & Long Distance (Internet access is an option.)

T1/PRI - Voice and Data

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voice solutions

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  - call management features
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- dsl & data
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- equipment

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CTSI is your one source for business telecommunications. A choice for your business that clearly stands out above the rest. Quality, value and reliability - CTSI offers it all. In fact, thousands of businesses are choosing CTSI, not only because they are saving their business money, but because they are dependent on service levels that only a true state-of-the-art local telephone company can offer.

- Unlimited and Metered Local Calling
- Call Management Features
- Digital Centrex
- Conferencing
- Long Distance
- Local Internet Access
- Bundled Solutions

As a facilities-based provider, we deliver a full range of business services over a 100% digital network. We're worth knowing!

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dsl & data

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- equipment

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Access to the Internet is a business necessity. The Internet is an ever-expanding source of information and communication possibilities. At CTSI, we'll keep you connected to the world and to your business community with full access to the Internet, as well as regional and local information, news and resources.

DSL

Gain high speed connectivity to the Internet through Jack Flash® High-Speed DSL. With speeds up to 50 times faster than ordinary dial-up, DSL is a business productivity tool, especially when you need to send or retrieve large files. DSL is "always on," there is no waiting to log-on!

availability

JACK FLASH
LIGHTNING-FAST INTERNET SERVICE™

T-1

CTSI can provide your business with a high capacity T-1 facility that can be used for a point-to-point application or a connection to an Internet Service Provider (ISP) for Internet access.

Integrated (Voice & Data) Solutions

CTSI combines voice, long distance and Internet access all on a single digital facility.
Click Here For More Information

call toll free: 1-888-278-8783

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equipment

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long distance

With a variety of competitively priced long distance plans, CTSI Long Distance can match your business calling patterns to the most cost-effective plan. Whether your business calls are within the state, across the country, or around the world, CTSI Long Distance offers clear, reliable connections and competitive rates.

Additionally, CTSI Long Distance provides your company toll free service, as well as calling cards.

call toll free: 1-888-278-8783

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In addition to offering a rich portfolio of business solutions, CTSI provides a wide range of telephones, both corded and cordless; Digital Centrex sets; Caller ID units; telephone cords; and other telephone equipment. Also, through our sister company, Commonwealth Communications, CTSI provides a full range of Enterprise Solutions including:

- Telephones & Equipment
- Telephone Systems (Key and PBX)
  - Voice
  - Converged Voice and Data
  - IP Telephony
- Data Communication Networks
- Cabling Systems
- Video Solutions
- Peripheral Equipment
- System Consulting and Maintenance

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about CTSI

CTSI, LLC, a wholly owned subsidiary of Commonwealth Telephone Enterprises, Inc. (CTE), is a competitive local exchange carrier operating in markets throughout Pennsylvania. With a 107-year heritage and a rich history of service excellence to draw upon, CTSI delivers a broad portfolio of products and services to both business and residential customers.

As a facilities-based Competitive Local Exchange Company (CLEC), CTSI operates in three "edge-out" regional Pennsylvania markets that border Commonwealth Telephone Company's market, including the Wilkes-Barre/Scranton/Hazleton area, the Harrisburg area, the Lancaster/Reading/York area and portions of the Lehigh Valley. Offering professional consulting and customer account managers, CTSI provides the business marketplace individualized solutions to meet their communications needs. From local service to advanced integrated voice and data products, CTSI offers a broad range of telecom services.

With an expanding portfolio of "service bundles," CTSI provides residential customers a single-company solution to meet all household telecommunications needs, including: local calling, call management features, long distance service and Internet access.

At CTSI, customers will experience the quality and reliability of a 100% digital fiber-optic network combined with a strong tradition of excellent customer service.

call toll free: 1-888-278-8783

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Carrier Services

Experience Our

"End to End" Service Commitment.

Elantic knows that service provisioning to your customers is your highest priority. When those services are needed, your customers want them at the earliest possible moment.

We've already completed Master Services Agreements with local and long-haul service providers in all of our present and many of our future POP locations. By doing this, we're ready for your orders and can execute them in record time, across the street or cross-country. As we've said before, we're ready and enabled to power your business.

Please consult the latest POP List for Private Line service provisioning on Elantic Telecom's Inter-Exchange long haul carrier network and metro facilities. Services up to and including OC12 can be provisioned in ten days. Provisioning intervals for OC48 and 10 gig waves are quoted on an individual case basis.

Jump to other services:

- **Carrier Services**
- **Private Line**
- **Wavelengths**
- **Metro Area Networks**
- **Collocation Facilities**
- **Dark Fiber**

Private Line

Improve Your Connection.

▶ **Click here to view Private Line Service Features and Benefits.**

Delivering End-to-End services for IXC services and Local Access adds value for both you and your customers by streamlining your business as well as speeding up provisioning to your customers. Elantic's high-capacity private line offerings are protected DS3 to OC12 services over our DWDM backbone. On some routes, we will provide sub-DS3 up to OC192.

We offer fully redundant protected rings using diverse ingress and egress routes to the drop-in points. Our network strategy uses small, interconnected SONET rings—300 to 500 miles each, not 2,000 miles. In the event of a failure, we have a very short distance to re-route.

Elantic's network uses Alcatel long-haul dense wavelength division multiplexing (DWDM) optical networking equipment and ONI Systems in the metro sector to support high-bandwidth, revenue-generating services. With DWDM and SONET, you get efficient transmission regardless of the transport protocols already in place.*

Our Architecture Advantage
The network supports a multifaceted approach to private line, including Wave Division Multiplexing, SONET, and Time Division Multiplexing. Included are such features as Optical Meets, Channelized Services and Route Selection to meet your specific needs.

Demand the Best
We know how important reliable service is. Elantic's 100% fiber network using self-healing SONET rings with diverse paths to all drop points allows you to provision service to your customers with confidence. Our DWDM infrastructure allows scalability and flexibility for your growth. At Elantic Telecom, we do not drive technology; rather, we carefully select the technological advancements that will bring you robust and effective solutions.

Jump to other services:

- **Carrier Services**
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Read more about...

- [Traditional Private Line, the DS3](#)
- [SONET Service Configurations](#)
- [Bandwidth Management](#)
- [Survivability](#)

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Traditional Private Line, the DS3

Traditional Private Line is a point-to-point Time Division Multiplexed (TDM) service provided over dedicated fiber optic transmission facilities. Delivered on Alcatel facilities, this most basic circuit along with all of our services offers reliable and dependable, trouble-free connectivity for your customers. Traditional Private Line is capable of providing dedicated voice, data and video connections including:

- Carrier Backbone Services
- Fall back and redundant circuits
- Internet Access
- Support for high volume transaction-based systems (reservations, billing, etc.)
- Integrating multiple voice, data and video as well as full-motion video conferencing
- LAN bridging
- Perfectly suited for IBM SNA environments

SONET Private Line Service - Service Configurations

Elantic Telecom Private Line Service is a dedicated point-to-point technology, through non-switched, non-usage sensitive dedicated facilities. Supported over Dedicated Synchronous Optical Network (SONET) facilities, these Private Line Services provide one of the most reliable networks in the industry.

Signal	Bit Rate (Mbps)	Capacity
STS-1, OC-1	52	28 DS-1s or 1 DS-3
STS-3, OC-3	155	84 DS-1s or 3 DS-3s
STS-12, OC-12	622	336 DS-1s or 12 DS-3s
STS-48, OC-48	2.5 G	1,344 DS-1s or 48 DS-3s
STS-192, OC-192	10 G	5,376 DS-1s or 192 DS-3s

Current service configuration consists of the following scenarios:

Basic DWDM Architecture

The backbone of our network consists of Alcatel's 1640 DWDM product providing up to 800 Gbps of capacity. For POP to POP route diverse connectivity, a circuit might resemble the drawing

below:

SONET Services - unprotected interface: OC-3 & OC-12

Depending on your needs, we can provision services configured to your facilities in an unprotected or protected mode. The illustration below depicts an unprotected interface off of our redundant facilities. The two lines terminating from the 1603 SONET into the Customer location represent an unprotected handoff (1+0) of two fibers.
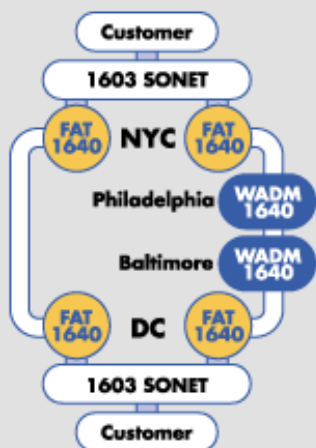
SONET Services - protected interface: OC-3 & OC-12

For applications requiring higher levels of reliability and survivability, we offer you a protected interface to your locations. The four lines terminating from the 1603 SONET into the Customer location below represent a protected handoff (1+1) of four fibers.
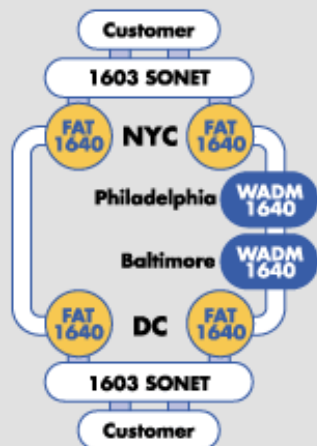
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Bandwidth (Optical Carrier)

The OC-x product line is an ultra high-speed solution for today's bandwidth-intensive information transmission. Its inherently flexible management capability allows it to accommodate any mixture of voice, data or image processing. You and your customers will be able to benefit from aggregating as much bandwidth as needed into a high-speed, easy-to-maintain, extremely dependable transmission facility.

Bandwidth Management

A major advantage to your OC-x customer is our ability to easily support and manage huge amounts of bandwidth. Within the OC-x infrastructure, the width of your information highways can be tailored in a standard way. You can parcel out specific amounts of this bandwidth to meet the needs of a broad and diverse array of customer applications, all without adding equipment to the network or manually reconnecting cables.

The beauty of the OC-x is that it can remotely configure optical cross-connects. The product also provides more efficient switching and transport by eliminating the need for mid-level network elements such as back-to-back M13 multiplexers, for example, required for cross connecting DS1's. With remotely configurable SONET equipment, you can more expeditiously support the specific bandwidth needs of your customers.

Survivability

We offer sophisticated real-time self-diagnostics and fault analysis, making it possible to identify problems before they disrupt service. The embedded control channels enable the tracking of end-to-end performance of every transmission and identify elements that cause errors. With this capability, Elantic provides highly reliable transmission performance that you can easily verify without off-line test procedures.

*The Alcatel 1640 Optical Add/Drop Multiplexer (OADM) is a next-generation, long-haul optical networking system that allows your network to grow cost effectively from one to 80 channels on a per channel basis. The Alcatel 1640 is a scalable, flexible WDM solution for high-capacity, long-haul optical networks. It permits cost-efficient, high optical performance by allowing access by a variety of bit rates and traffic types. The Alcatel 1640 is ideal for building both optical terminal multiplexers as part of point-to-point networks, and optical add/drop multiplexers (OADM) for use in multi-point-to-multi-point backbone networks.

The Alcatel 1603 SMX SONET Multi-Service Network Element can be configured to support a wide range of applications operating at OC3, OC12, or 48 optical line rates, with tributary rates from OC12 to DS1 and Ethernet up to 100 megabits. Connecting to the "last mile," this equipment enables profitable service delivery to end-users.

For metro solutions, Elantic Telecom utilizes the ONI Systems' DTS (Dynamic Transport System) platform. The DTS provides all-optical services, transporting digitally encoded signals up to and including 10 Gb/s. High capacity wavelength services are delivered through the support of 33 bi-directional data transport signals traveling over a single fiber pair. Traffic survivability is ensured by two-fiber optical protection schemes.

In addition to wavelength services, the DTS offers sub-wavelength multiplexing of lower speed optical services such as OC3, OC12, or gigabit Ethernet, over a single OC48 transport channel. Multiple services such as Asynchronous Transfer Mode (ATM) or Internet Protocol (IP) can be transported simultaneously in their native formats regardless of protocol.

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Private Line
Improve
Your Connection.

Private Line Service Features and Benefits

All Private Line Services take advantage of the reliable, dependable Alcatel SONET infrastructure facilities that both you and your customers will appreciate:

- High-speed point-to-point solutions for today's bandwidth-intensive information transmission.
- SONET based products provide end-to-end management, advanced fault tolerance and survivability with OAM&P (Operations, Administration, Maintenance and Provisioning) overhead features.
- 100% Fiber Optic transmission between all our terminal locations.
- Suitable for transport of a wide variety of signals: three or more NTSC-quality TV signals, compressed HDTV signal, or FDDI can all be carried within the transport structure.
- Outstanding reliability with end-to-end network monitoring and Mean Time to Repair (MTTR) objective of less than four hours.
- Full-time network management center (7x24x365) for disaster recovery and network monitoring.
- Collocation/Rack space available at many terminal locations.
- Secure connections. All links are protected with either or both redundant fiber self-healing ring technology and fail-over equipment to ensure nearly 100 percent availability.
- Flexible Line Speeds. Digital private line point-to-point services are ubiquitously available from DS-3 (45 Mbps) to OC-192 (10 Gbps). Multiple drop configurations are available as a custom design.

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Wavelengths
Get the Speed
You Need.

Our wavelength services are a full channel or wave provided at either 2.5 gigabit or 10 gigabit speeds that you can break out as you need. We offer protected, diverse - or unprotected, non-diverse wavelength services.

Our wavelength services use the same Alcatel OADM DTS as our lower speed services.*

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Jump to other services:

- **Carrier Services**
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- **Metro Area Networks**
- **Collocation Facilities**
- **Dark Fiber**

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Metro Area Networks

Reap the Rewards of
Smart Solutions.

We are building metropolitan area networks in key cities to connect to key customer locations and carrier-neutral hotels in those cities. We utilize their metro facilities to access key carrier hotels, getting as close as possible to customer locations. This provides local access costs that yield economic solutions for you and your customers. For metro solutions, we utilize the ONI Systems' DTS (Dynamic Transport System) platform.*

Jump to other services:

- **Carrier Services**
- **Private Line**
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- **Dark Fiber**

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Collocation

Decrease Costs with
Secure, Controlled Access.

:: Home > Services > Collocation

We have collocation facilities in key locations to house our customers' switching and optronics equipment, all in the under-served tier two and three cities in the eastern half of the U.S. Our collocation offering provides secure, controlled but unsupervised access with all the desired complements of environmental controls, UPS battery back-up, and emergency power generation. Collocation of your equipment in POP centers allows rapid access to superior network and facility resources and new markets at minimal capital cost. We are access neutral and have carrier-class equipment space available that is protected, secure and accessible. Elantic offers:

- Redundant HVAC systems for reliability
- Multiple power sources, and emergency generator backup
- State-of-the-art fire protection system(s)

Jump to other services:

- **Carrier Services**
- **Private Line**
- **Wavelengths**
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Dark Fiber

Optimize
Your Optronics.

Elantic's high-count Dark Fiber routes between Washington, D. C., and Chicago offer customers fiber strands to which they can apply their own optronics: to lower cost through network ownership, enter new markets, and enhance control over their own network. The route includes drop points in 14 cities through some of the most economically dynamic areas in the Mid-Atlantic and Midwest. Alcatel TeraLight Non-Zero Dispersion Shifted Fiber (NZ-DSF) and standard SMF-28 fiber are available along the route.

Other routes are available in New York, including select metros, and in New Jersey and Pennsylvania.

Jump to other services:

- **Carrier Services**
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POP List

Maximize
Your Network Performance.

Click a city's name to view its detailed information:

last updated: **September 2003**

CITY	STATE	NPA/NXX	LATA	SERVICE LEVELS							COLO SPACE
				DS-1	DS-3	OC-3	OC-12	OC-48	2.5G	10G	
Albany	NY	518/432	134		X	X	X	ICB	X	ICB	ICB
Alexandria	VA	703/838	236	X	X	X	X	ICB	X	ICB	X
Altoona	PA	814/946	230		X	X	X	ICB	X	ICB	X
Baltimore	MD	410/752	238		X	X	X	ICB	X	ICB	
Binghamton	NY	607/721	138		X	X	X				
Boston	MA	617/424	128		X	X	X	ICB	X	ICB	
Buffalo	NY	716/210	140		X	X	X	ICB	X	ICB	
Charlottesville	VA	804/977	928	X	X	X	X	ICB	X	ICB	
Chicago	IL	312/326	358		X	X	X	ICB	X	ICB	X
Cincinnati	OH	513/579	922		X	X	X	ICB	X	ICB	ICB
Cleveland	OH	216/416	320		X	X	X	ICB	X	ICB	X
Columbus	OH	740/257	324		X	X	X	ICB	X	ICB	ICB
Danville	VA	434/251	244		X	X	X	ICB	ICB	ICB	
Dayton	OH	937/225	328		X	X	X	ICB	X	ICB	
Detroit	MI	313/963	340		X	X	X	ICB	X	ICB	X
Emporia	VA	804/348	248	ICB	X	X					
Fayetteville	NC	910/223	949		X	X	X	ICB	X	ICB	
Fredericksburg	VA	540/373	246	ICB	X	X	X	ICB	X	ICB	
Gainesville	VA	703/257	236								X
Hagerstown	MD	301/739	240		X	X	X	ICB	X	ICB	X
Harrisburg	PA	717/302	226		X	X	X	ICB	X	ICB	X
Harrisonburg	VA	540/433	927		X	X	X	ICB	ICB	ICB	
Hartford	CT	860/547	920		X	X	X	ICB	X	ICB	
Indianapolis	IN	317/633	336		X	X	X	ICB	X	ICB	ICB
Johnstown	PA	814/533	240		X	X	X	ICB	X	ICB	X
New Haven	CT	203/946	920		X	X	X	ICB	X	ICB	
New York City#1	NY	212/210	132		X	X	X	ICB	X	ICB	
New York City#2	NY	212/267	132		X	X	X	ICB	X	ICB	
New York City#3	NY	212/267	132		X	X	X	ICB	X	ICB	
Norfolk	VA	757/625	252	X	X	X	X	ICB	X	ICB	
Petersburg	VA	804/705	248	ICB	X	X	X	ICB	ICB	ICB	
Philadelphia Temp	PA	215/563	228		X	X	X	ICB	X	ICB	
Pittsburgh	PA	412/321	234		X	X	X	ICB	X	ICB	X
Poughkeepsie	NY	845/905	133		X	X	X	ICB	X	ICB	

See enlarged map

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City	State	Code	Num								
Providence	RI	401/273	130		X	X	X	ICB	X	ICB	
Raleigh	NC	919/828	426	X	X	X	X	ICB	X	ICB	ICB
Reston	VA	703/742	236		X	X	X	ICB	X	ICB	
Richmond (Glen Allen)	VA	804/273	248	X	X	X	X	ICB	X	ICB	X
Richmond	VA	804/771	248	X	X	X	X	ICB	X	ICB	X
Roanoke	VA	540/342	244		X	X	X	ICB	X	ICB	
Roanoke Rapids	NC	252/308	951	X	X						
Rochester	NY	585/454	974		X	X	X	ICB	X	ICB	
Rocky Mount	NC	252/458	951	X	X	X	X	ICB	ICB	ICB	
South Bend	IN	574/233	332		X	X	X	ICB	X	ICB	X
Springfield	MA	413/746	126		X	X	X	ICB	X	ICB	
Stamford	CT	203/324	920		X	X	X	ICB	X	ICB	
Staunton	VA	540/886	244		X	X	X	ICB	ICB	ICB	
Syracuse	NY	315/472	136		X	X	X	ICB	X	ICB	
Toledo	OH	419/380	326		X	X	X	ICB	X	ICB	X
Warrenton	VA	540/347	246								
Watertown	NY	315/779	136		X	X	X				
Wilmington	NC	910/332	428		X	X	X	ICB	X	ICB	
Winchester	VA	540/667	246		X	X	X	ICB	ICB	ICB	
Worcester	MA	508/791	128		X	X	X	ICB	X	ICB	
Youngstown	OH	330/746	322		X	X	X	ICB	X	ICB	X

last updated: September 2003

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Network Map

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A Citizens Communications Company

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PRODUCTS AND SERVICES

Data Services

- Asynchronous Transfer Mode (ATM)
- Data Centers and Collocation Services
- Frame Relay
- Internet Connections
- Remote Systems Virtual Portal℠ (RSVP) (Wholesale Dial-Up Internet Access)
- Transparent LAN Service
- Web Hosting
- EasyMail
- Logon to Web Hosting and Email

Network Services

- Private Line Service
- Ultra Ethernet

Voice Services

- Advantage Travel Card
- All Calls
- Business Line Service
- Custom T
- Foreign Exchange
- ISDN for Call Centers
- ISDN - PRI
- Long Distance Service
- Trunks
- Voice Messaging

Other Services

- Customer InSite
- Logon to Customer Insite (User Id and Password required)

- Products and Services
- Cities We Serve
- Carrier Accounts
- Strategic Partners

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PRODUCTS AND SERVICES

RSVP - Remote Systems Virtual Portal℠
--Check out our Rate Center coverage--

For a growing ISP wanting to provide access to more remote dial-up users at minimal cost, Electric Lightwave's RSVP is the perfect outsource solution. We provide the dial-up ports and the Internet access, and route your users straight through our remote access server and onto our Internet backbone.

Growing without pains.
Expanding into new geographic markets, building up your service infrastructure, growing your customer base – what ISP doesn't want it all?

On the other hand, doing it yourself means buying, integrating, maintaining, and upgrading modems, access servers, and high speed access lines; hiring technical staff to install and support the hardware; providing security, commercial space, and back-up power; and the list goes on.You don't want to go there.

So we've gone there for you.

Electric Lightwave has the infrastructure already in place. You simply pay a monthly fee for access to our dial-up ports. RSVP delivers the fast, clear, dial-up connectivity that your customers expect. It's transparent to end-users, appearing as your own service, even if you have no physical presence in their geographic market.

RSVP lets you free up working capital, and concentrate your resources on the important things: serving your customers, attracting new ones, expanding into new markets, and successfully meeting your business goals.

Managed growth without risk. You're in charge.
Unlike most other remote access providers, Electric Lightwave bills you by the port, not by the user. That lets you control the user-to-port subscription ratio to fit your business model. You can handle fluctuations in your customer base, adding or deleting ports as needed – in effect, managing your growth without risk to your capital budget.

We even help you keep track of your business with an efficient and easy-to-use network reporting tool. Via your Internet Web browser, RSVP View lets you look at your traffic, gives you valuable statistics about your users, and helps you manage capacity.

Best of all, as you grow, you'll always be offering your customers the most advanced technology. Upgrading is our concern, not yours.

Security matters.
With RSVP, you get full support seven days a week, 24 hours a day from our state-of-the-art

- Products and Services
- Cities We Serve
- Carrier Accounts
- Strategic Partners